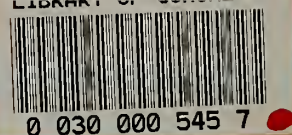


T/2
84

1922

259



Hollinger Corp
pH 8.5

712-34
71152

OHIO Industrial DIRECTORY

Index to Cities and Towns—Page 3

Advertisers Index—Page 169

10

BUCKEYE LISTING COMPANY

208 St. Clair Avenue, N.W.
CLEVELAND, OHIO

Telephone, Main 2648

OHIO EDITION
Copyright 1922
Buckeye Listing Company

NIGHT
and DAY
SERVICE

SPECIALISTS
in
COLOR WORK

PRINTING

*One of the
Largest
and Best
Equipped
Plants in
Northern
Ohio*

EQUIPPED to handle your
smallest office form or your
finest catalog.

PHONE us for prices.

EVERY operation handled in
our own shop from the making
of our own type to the finished
job.

LET us help you with your
advertising. Dummies for
booklets, folders or catalogs
submitted on approval.


BUEHLER PRINTCRAFT COMPANY

Bell Phone, Main 2648 -:- 208-210 W. St. Clair Ave.

CLEVELAND, OHIO

AN
OPEN
SHOP

© 1922

T12
①4

FOREWORD

SENSING the real need for a practical work of this kind, the publishers have spared no pains or expense to make this Directory of the Metal Working Industries of Ohio as complete and comprehensive as possible, without being cumbersome.

To those interested in establishing a buying or selling contact with this field, it is designed to render a quality of service that is not to be duplicated by any other medium.

Its authenticity, combined with its conciseness and convenient manner of listing and classification, makes it unusually valuable to the busy man, either as a ready and reliable source of information, or as a time-saving and productive mailing list.

Appreciation of our efforts has been shown by a demand that has far exceeded our expectations. In turn we desire to express our thanks to the many Chambers of Commerce, throughout the State, whose whole-hearted co-operation is largely responsible for the accuracy and dependability of this Directory.

THE SEAL of APPROVAL



AMPCO PLEDGE—YOUR PROTECTION

Designed and produced to stand up under the most grilling tests, to satisfy the requirements for fine and highly accurate work Ampco Tools have established a reputation that we shall maintain. It is our pledge that Ampco Tools must live up to their guarantee always.

We want Ampco Tools to be their own best advertisements—our largest customers are companies that bought a few tools from us when their regular supply sources could not give them enough. Ampco Tools more than filled the gap and they have become large and, in some cases, exclusive users of Ampco Tools.

AMPCO APPROVED TOOLS

Complete Stock—Drills, Reamers, Cutters, End-mills and Special Tools.

THE MURLEY TOOL & SUPPLY CO.

The House of Good Tools

716 Superior Ave. N. W.

CLEVELAND, OHIO

SERVICE

QUALITY

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

Index of Cities and Towns

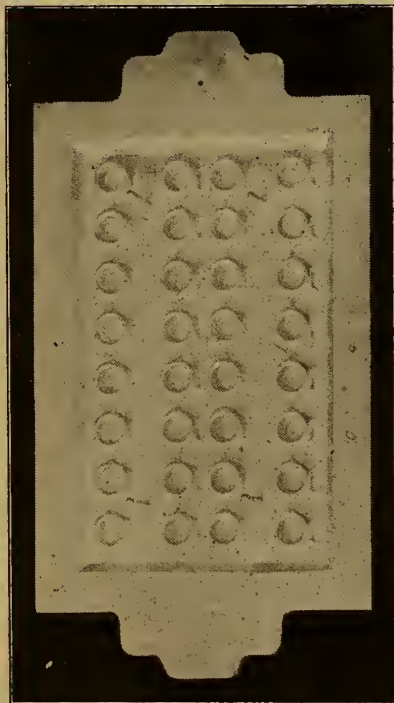
	Page		Page		Page
Akron	7-9	Galena	120	North Canton (See Canton).	
Alliance	10	Galion	120-121	North Fairfield	140
Amherst	10	Gallipolis	121	North Kingsville	140
Archbold	10	Garfield	121	Norwalk	140
Ashland	10-11	Garrettsville	121	Norwood (See Cincinnati).	
Ashtabula	11	Geneva	121		
Athens	11	Girard	122	Oak Harbor	140
Barberton	11-12	Greenfield	122	Oak Hill	141
Barnesville	12	Greenspring	122	Oberlin	141
Batavia	12	Greenville	122	Orrville	141
Beach City	12				
Bedford	12	Hamilton	122-124	Painesville	141
Bellaire	13	Harrison	124	Perrysburg	141
Bellfontaine	13	Hillsboro	124	Piqua	141-142
Bellevue	13	Hubbard	124-125	Plymouth	142
Bellville	13			Pomeroy	142
Berea	13	Irondale	125	Port Clinton	142
Big Prairie	14	Ironton	125	Portsmouth	142
Blanchester	14	Ivorydale	125	Prospect	143
Bluffton	14				
Bowling Green	14	Jackson	125-126	Ravenna	143
Bradner	14	Johnstown	126	Reading	143
Bremen	14			Ripley	143
Brewster	14	Kent	126	Roseville	143
Bridgeport	15	Kenton	126	Rossford	143
Bryan	15	Kinsman	126		
Bucyrus	15			Sabina	144
		Lancaster	126-127	Saint Bernard	144
Cadiz	15	Larue	127	Saint Marys	144
Cambridge	15	Lebanon	127	Salem	144-145
Canal Fulton	17	Leetonia	127	Salineville	145
Canton	17-21	Leipsic	127	Sandusky	145-146
Carrollton	21	Lexington	128	Sebring	146
Celina	21	Lima	128	Seville	146
Centerburg	21	Lisbon	128	Shelby	146
Chagrin Falls	21	Lockland	128	Shreve	146
Chillicothe	21	Logan	128	Sidney	146-147
Cincinnati	23-35	London	128-129	Spencer	147
Cleveland	35-94	Lorain	129	Springfield	147-149
Cleves	94	Loudenville	129	Steubenville	149-150
Clyde	94	Louisville	129	Struthers	150
Coldwater	91	Lowellville	130	Sunbury	150
Columbiana	94-95	Lucas	130	Swanton	150
Columbus	95-103				
Conneaut	103	Macksburg	130	Tiffin	150
Cortland	103	Madison	130	Tiltonsville	151
Coshocton	103	Malta	130	Toledo	151-159
Crestline	103	Mansfield	130-132	Toronto	159
Curtice	103	Marietta	132	Troy	159
Cuyahoga Falls	104	Marion	132-133		
		Martins Ferry	133	Uhrichsville	159
Dayton	104-114	Marysville	133	Upper Sandusky	159
Defiance	114-115	Massillon	133-134	Urbana	160
Delaware	115	Masury	134	Utica	160
Delphos	115	Medina	134		
Delta	115	Miamisburg	134-135	Van Wert	160
Dennison	115	Middleport	135	Vermilion	160
Deshler	115	Middletown	135		
Dover	115-116	Millersburg	135	Wadsworth	160
Doylestown	116	Mineral Ridge	135	Wapakoneta	161
		Minerva	136	Warren	161-163
East Canton (See Canton).		Mingo Junction	136	Washington C. H.	163
East Cleveland (See Cleveland)		Minster	136	Wauseon	163
East Liverpool	116	Mogadore	136	Waynesburg	163
East Palestine	116	Montpelier	136	Wellington	163
East Youngstown (See Youngstown).		Morral	136	Wellston	163
Eaton	116	Mount Gilead	136	Wellsville	164
Elmore	117	Mt. Vernon	137	West Lafayette	164
Elmwood Place (See Cincinnati).				Westerville	164
Elyria	117-118	Napoleon	137	Wickliffe	164
Euclid	118	Nelsonville	137	Willard	164
		Newark	137-138	Willoughby	164-165
Fairport Harbor	118	New Bremen	138	Wilmington	165
Findlay	118-119	Newcomerstown	138	Wooster	165
Forest	119	New Lexington	138		
Fostoria	119	New Philadelphia	138	Xenia	165
Franklin	119	New Richmond	139		
Fredericktown	120	Newton Falls	139	Youngstown	166-168
Freeport	120	New Washington	139		
Fremont	120	Niles	139-140	Zanesville	168
		North Baltimore	140		

HINES PATTERNS

ARE BUILT

under instructions of the most practical Foundrymen. If you do not obtain Castings under the most desired conditions, why not let us submit you a Proposition? Send us a Casting or Blue Print. Our proposition will save you Money. We would suggest the best Moulding Machine, Pattern Equipment and Flask Equipment for your class of work.

(DRAG PLATE)



OUR FOUNDRY

is used exclusively for trying out jobs. Making Cast Aluminum Match Plates, Aluminum Pattern Castings and experimental work.

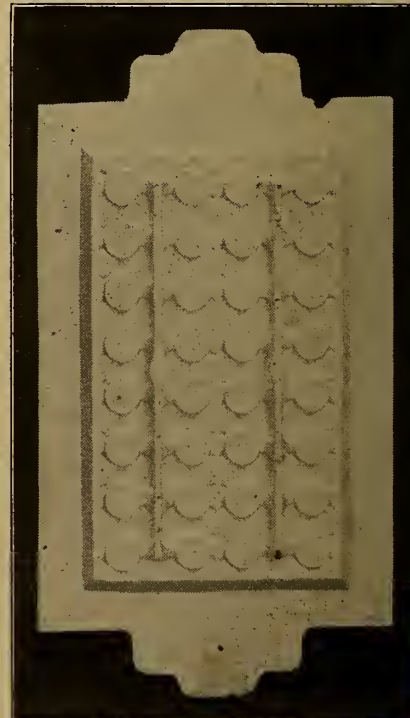
OUR EQUIPMENT

consists of all modern Machinery, Ball Bearing and Motor Driven, which insures high speed and good work.

OUR MATCH PLATES

are made with such accuracy that scarcely any labor is required on them.

(COPE PLATE)



We have designed and built Pattern and Flask Equipment to be used in connection with Molding Machines for the Castings listed below.

Some of these have shown an increase in production as high as 80%.

*Potts Irons
Plow Shares
Lawn Mowers
Automobile
Valves
Light Hardware*

*Electric Motors
Electric Irons
Stove Plate
Pipe Fittings
Vacuum Cleaners
Washing Machines*

*Lock and Door Checks
Hot Air Furnaces
Hot Water Heaters
Chilled Car Wheels
Railroad Car
Farm Implements*

In addition to our metal pattern department we have a large wood department for making patterns for heavy machinery, gear wheels and mill machinery.

HINES PATTERN & MFG. CO.

10106-8 DETROIT AVE.

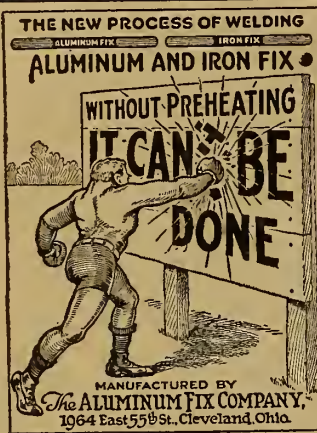
MEMBERS AMERICAN PLAN ASSOCIATION
MEMBERS CLEVELAND PATTERN JOBBERS ASSN.

CLEVELAND, OHIO

Explanation of Symbols

Denoting Nature of Business

- A—Machinery, Machine Tools (Manufacturers).
B—Machinery, Machine Tools (Special) (Mfgs.).
C—Engines, (all kinds) Pumps, Tanks, Stacks, Boilers (Mfgs.-Repairers).
D—Metal Stampings, Metal Products, Galvanizing, Sherardizing, Enameled and Aluminum Ware (Mfgs.).
E—Automobiles, Automotive Equip. also Bodies, Frames, Radiators, Springs, Bumpers, Axles, Bearings (Mfgs.).
F—Patterns (either) also Pattern Shop Equip. (Mfgs.).
G—Mills (Iron, Steel, Aluminum, Brass, Copper, Pig Iron) Non-Ferrous Metals (Mfgs.).
H—Foundries (Brass, Bronze, Copper, Aluminum) Die-Castings, also Foundry Equipment (Mfgs.).
I—"Stock" Machinery, Machine Tools, Belting, Mill and Mine Supplies.
J—"No Stock", Machinery, Machine Tools, Belting, Mill and Mine Supplies.
K—Hardware and Specialties (Plumbers, Building, Steam, Oil, Gas) (Mfgs.).
L—Engineers (Consulting-Mechanical-Safety-Industrial-Production) also Exper.-Lab.
M—Forgings (all kinds) Upsetting, Pipe-Bending, Forming, Wrenches, etc. (Mfgs.).
N—Wire Mills, Wire Fabric Products, Fences, Nails, Tacks, Chaplets, Rivets (Mfgs.).
O—Heat Treatment of Metals, Case-Hardening, Carbonized Steel Products (Mfgs.).
P—Cranes (all kinds) Electric, Steam or Gas-Driven, Portable Buckets (Mfgs.).
Q—Meters (all kinds) (Manufacturers).
R—Electrical-Mchy., Motors, Electrical-Equip. (Mfgs.-Repairers).
S—Railway Supplies and Equip., Trans. Equip., Industrial and Mine Cars (Mfgs.).
T—Gears (all kinds) Transmissions, Differentials, Gear-Cutting (Mfgs.).
U—Screw Machine Products, Nuts, Washers, Bolts, Screws (Mfgs.).
V—Tractors, Trailers, Aeroplanes, also Equipment (Mfgs.).
W—Hydraulic Machinery and Equipment (Mfgs.).
X—Castings (Grey-Iron, Steel, Malleable) (Mfgs.).
Y—Transmission Mchy. and Equip. Line-Shafting-Equip., Belts, Clutches (Mfgs.).
Z—Elevators, Elevating and Conveying Mchy. Equip. for handling Ore, Coal, Ashes, also Stokers (Mfgs.).
AA—Grinding Equipment, Abrasive Products, Truing Tools (Mfgs.).
BB—Sales-Jobbers, District-Managers, Fcty.-Representatives (all lines).
CC—Hoisting Equipment (Elec., Hand, Air, Steam, Portable) (Mfgs.).
DD—Machine Work (Job, Contract or Production) Tools, Dies, Fixtures.
EE—Welding or Brazing (Job or Contract Work).
FF—Welding Machines (all kinds) Welding Equipment (Mfgs.).
GG—Barrels, Drums, Hoops (Steel) Boxes (all kinds), Tool Kits (Mfgs.).
HH—Chains, Chain-Products (all kinds), Sprockets (Mfgs.).
II—Machine Tools (small), Taps, Dies, Die-Stocks (Mfgs.).
JJ—Steel (Alloy, Cold-Rolled, High-Speed) Strips, Sheets, Bars, etc. (Mfgs.).
KK—Drills, Reamers, Cutters, Counterbores, High-Speed Tools, Drill Stands (Mfgs.).
LL—Steel Shafting, Heavy Forgings, Hollow Bored Shafting, Steel Tubing (Mfgs.).
MM—Saws, Knives, Edge Tools, Files, etc. (Mfgs.).
NN—Pumps (Hydraulic, Pneumatic, Oil, Rotary, Steam, Turbine, Vacuum) (Mfgs.).
OO—Pneumatic Tools, Portable Elec. Tools, Air-Compressors, Blowers (Mfgs.).
PP—Machinery, Machine Tools (all classes) New and Used.
QQ—Fcty. Equip., Partitions, Benches, Mch. Guards, Ex-Pipe and Vet. Equip., Galvanized Pro., Portable Bldgs. (Mfgs.).
RR—Farm Machinery, Tools, Implements, also Dairy Equipment (Mfgs.).
SS—Contractors Mchy., Road-Making Mchy., Cement Mixers, Sand Mchy. (Mfgs.).
TT—Ceramic Mchy. for manufacturing Refractories, Brick, Tile, Dishes, Glass-Pro., Porcelain-Pro. (Mfgs.).
UU—Belting (Leather and Fabric) Leather Products (Mfgs.-Reclaimers).
VV—Washing Machines, Drying Equipment, Laundry Equipment (Mfgs.).
WW—Punches, Presses, Shears, Steam and Drop Hammers, Plate Working Tools (Mfgs.).
XX—Ceramic Products, Refractories, Brick, Tile, Glass Products, Porcelain Products (Mfgs.).
YY—Rubber Products, Tire, Tubes, Druggists and Sundries (Mfgs.).
ZZ—Structural and Ornamental Iron Fabricators, Bridges, Erectors.
AAA—Metallurgists, Manufacturing Chemists.
BBB—Furnaces, Heat-Treating (all kinds) also Heat Measuring Instruments (Mfgs.).
CCC—Fluxes, Flux Materials, Aluminum Iron and Metal Fixes (Mfgs.).
DDD—Systems, Time Recording, Process Timing, Signalling Instruments (Mfgs.).
EEE—Millwrights, Equipment Erectors, Movers, etc.
FFF—Instruments, Electric, Engineering, Dental, Surgical, Testing and Lab. Equip. (Mfgs.).
GGG—Stoves, Heaters (Oil, Gas, Electric) Stove Equipment, Restaurant Equipment (Mfgs.).
HHH—Oils (Lubricating, Fuel), Petroleum Products (Refiners-Distributors).
III—Registers (Coin, Fare, Autographic) (Mfgs.).
JJJ—Letter Work (Multigraphing, Addressing, Mailing) also Office Devices.
KKK—Scales, Weighing Devices (Mfgs.).
LLL—Electro-Platers, also Equipment and Supplies.
-



THE TALE OF ALUMINUM FIX AND IRON FIX

A lone I fix all aluminum that breaks,
L et no one ever make a mistake
U nited I stand in all workmen's hands
M ending castings, pots and pans.
I nitial cost is very low
N o other alloys will ever go
U nder the strains and tests I've made
M illions have failed where I have stayed.

F uture production depends on me
I nquire from someone and you will see
X cellent results my guarantee.

I defy any metal refusing to unite with me
R eputed porous castings need never be
O f scored cylinders I'm "fixer" to a degree
N o broken block scraped when given oppor-
tunity.

F or boiler sections and gasoline barrels get
me

I and warping dis-agree
X cellent results my guarantee.

FREYMAN TOOL COMPANY TOOLS AND MILL SUPPLIES

Small Tools Taps and Dies Drills Reamers Hack Saw Blades
Machine and Cap Screws Bolts and Nuts Electrical Supplies
Power Blades Automobile Tools and Supplies Pipe Tools

309 Prospect Ave. S. E.
Main 5291

CLEVELAND, OHIO
Central 4834-R

We can supply your wants in good used equipment and specialize on the following:

POWER PRESSES POWER BRAKES ROLLS SHEARS
PUNCHES UPSETTERS BULLDOZERS PLANERS
BORING MILLS LATHES

We will buy equipment that is almost new. And can sell any equipment you have
if you desire on a commission plan.

Western agents for McCabe & Sheeran Machinery Corp.

SHEET METAL MACHINERY COMPANY
CLEVELAND, OHIO



SAFE GUARD SYSTEM of 100% CHECK PROTECTION

1. Protects the Payee's Name - - - 33 1/3%
2. Protects Against the 2-line Raise - 33 1/3%
3. Protects the Amount (in a better way) 33 1/3%

Each owner receives a
2-year \$10,000.00 check
alteration policy in The
Fidelity & Casualty Co.

W. T. S. MULLEN, *Sales Manager*
402 Sloan Building Cleveland, Ohio

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

Who?

Est. 1906

HIGH CLASS EMPLOYMENT SERVICE

INTERSTATE BUSINESS EXCHANGE

MAIN 3629 658 ROSE BUILDING CLEVELAND

FOR

Executives, Engineers,
Draftsmen, Salesmen,
Office Men and Women

AKRON, SUMMIT COUNTY, OHIO

Class	Firm and Personnel	Address
B-H-X-DD-NN	ADAMSON MACHINE CO., THE A. Adamson, Pres.-G. M.; W. E. Slabaugh, V. P.; R. B. Koontz, S. T.-P. A.; T. Henry Williams, C. H.-Eng.; Geo. S. Whitney, Supt.	730 Carroll St.
RR	AKRON-BARROW CO., THE H. E. Haiman, G. M.; Milton Mooker, Gen. Supt.-Ch. Engr.; W. R. Baxter, Supt.; H. V. Haas, P. A. (Cleveland, Ohio)	230 N. Union St. (M. O. Cleveland, O.)
UU	AKRON BELTING CO., THE A. B. Rinehart, Pres.; W. C. Metlin, V. P.; Geo. Wince, Secy. P. A.; H. F. Adams, Treas.	70-74 Canal St.
H-X	AKRON BRONZE & ALUM. CO., THE H. M. Ehmann, Pres.-G. M.-P. A.-Supt.	579 Wash. St.
B-H-X-DD	AKRON EQUIPMENT CO., THE C. R. Quine, G. M.-P. A.; R. J. Schmidt, Supt.	E. Exch. & Annadale
MM	AKRON FILE CO. D. C. Breneman, Prop.	1006 Grant St.
T-L-DD	AKRON GEAR & ENGR. CO., THE J. Asa Palmer, Pres.; T. A. Seacrist, Gen. Mgr.-P. A.; O. E. Prier, S. T.; J. R. Triplett, Sales Mgr.; W. A. Brubaker, Supt.	42 E. South St.
D-DD	AKRON LAMP CO., THE J. C. Steese, Pres.-G. M.-P. A.; C. A. Hoff, Supt.	High & Iron Sts.
B-DD	AKRON MCH., MOULD, TOOL & DIE CO., THE Martin H. Behncke, Pres.-P. A.; R. H. Freitag, Supt.	696 Blaine Ave.
D-U	AKRON METALLIC GASKET CO. W. B. Haynes, G. M.; A. H. Kinzel, Sales Mgr.-Supt. P. A.	158 N. Union St.
F	AKRON PATTERN CO., THE Albert Arend, Prop.	415 Wheeler Lane
B-DD	AKRON RUBBER, MOLD & MCH. CO., THE S. W. Harris, Pres.-G. M.; W. E. Wilson, V. P.; G. F. Hobach, S. T.-P. A.; J. L. Cutler, Supt.	911-23 Sweitzer Ave.
E-T	AKRON-SELLE CO. B. E. Hower, Pres.; J. B. Hower, V. P.-Gen.-P. A.; E. W. Hamlin, Secy.-Mgr.-Gage Dept.; G. W. Wohlwend, Supt.	Cor. High & Chestnut Sts.
B-DD	AKRON STANDARD MOLD CO., THE A. J. Fleiter, Pres.-G. M.; Howard Reichard, Ch. Eng.; C. O. Thornhill, P. A.; T. A. Miller, Supt.; F. L. Daub, Gen. F.	1700 Englewood Ave. (E. Akron)
DD-II-B	AKRON STEEL CASTINGS CO. G. E. Forestner, Pres.; G. W. Wood, V. P.-Gen. Supt.-P. A.	730 Carroll St. (See Adamson Mch. Co.). 426-30 So. Broadway St.
EE-FF	AKRON WELDING CO., THE Geo. I. Stuver, G. M.-Supt.	Cor Sweitzer & Crosier Streets.
YY	AMAZON RUBBER CO., THE Louis Schott, G. M.; F. B. Bureh, V. P.; Walter Herberich S. T.; R. M. Sanderson, Supt. G. H. Wilson, P. A.	1796 E. Market St.
YY	AMERICAN HARD RUBBER CO. F. H. Snyder, Pres.; J. W. Rock, V. P.; H. L. Houck, Secty.; Jos. Dangel, Supt.; J. Dailey, P. A.	100 Beech St. (E. Akron)
EE	AMERICAN WELDING & REPAIR CO. Hugh Galt, Pres.; M. D. Wright, G. M.-Supt.-P. A.	54 E. Cedar St.
H-X	ATLANTIC FDRY CO., THE Chas. Reyman, Pres.; Christ Franz, Secty.; Jno. Steckel, Treas.; Harry C. Huff, Mgr.-P. A.	Beaver St.
H-X	BANNER FDY. CO., THE P. T. McGuckian, P.-G. M.; W. A. Garver, V. P.-Secty.; Jno. Kerch, Treas.	219 Newton Ave.
C	BIGGS BOILER WKS. CO., THE B. R. Barder, Pres.-G. M.; G. J. Seegar, V. P.; F. G. Sherbondy, S. T.-P. A.; J. P. Barder, Supt.; F. M. Strecker (Mgr. Tank Dept.).	Bank St.
XX	BUCKEYE SEWER PIPE CO., THE H. H. Gibbs, Pres.; G. H. Ruckel, V. P.; Elihu Harpham, S. T.	Office 887 E. Exch. St.
B-H-X-DD	BRIDGEWATER MACH. CO. F. Mason, Pres.-Fcty. Mgr.; H. H. Bridgewater, G. M.-P. A.; Geo. R. Southwood, Supt.	33 Cherry St.

Main Office and Showroom: 717 LAKESIDE AVE. N.W.

AKRON, SUMMIT COUNTY, OHIO

Class	Firm and Personnel	Address
ZZ	BURGER IRON CO., THE J. A. Burger, Pres.; J. A. Rohmer, V. P.; M. M. Kindig, S.-G. M.; G. A. Rohmer, Treas.	So. Main St.
GG-QQ	BURT MFG. CO., THE J. Asa Palmer, Pres.-G. M.-P. A.; Dwight Palmer, S. T.-Supt.	42 E. South St.
H-X	DIAMOND FOUNDRY CO., THE Peter Kraus, Pres.-G. M.-Supt.	Exch. & Annadale Ave.
B-DD-II	DIE SINKING & MACH. CO. W. H. Barkwell, Prop.-G. M.-Supt.	60 Iron St.
B-H-X-DD	EAST AKRON MACH. CO., THE Albert R. Miller, Pres.; Jno. T. Seidel, V. P.-Treas.-G. M.; Frank F. Seidel, Secy.-Supt.	1687-91 Englewood Ave. (E. Akron)
R	ELECT. MOTOR & REP. CO., THE S. W. Sweet, Pres.; W. A. Heffelman, Treas.-G. M.-P. A.; Henry Kish, Supt.	High & Iron Sts.
E-EE-GG	FIRESTONE STEEL PROD. CO., THE H. S. Firestone, Pres.; J. G. Swain, V. P.-Gen. Mgr.; W. H. Tether, Engr.-Prod. Supt.; E. R. Lowenhaupt, P. A.	Cor. Sweitzer & Miller Avenues.
YY	FIRESTONE TIRE & RUBBER CO., THE H. S. Firestone, Pres.-G. M.; J. W. Thomas, V. P.; A. C. Miller, V. P.; T. Clements, V. P.; S. G. Carkhuff, Secty.; J. G. Robertson, Treas.; C. A. Myers, Ch. Engr.; W. T. Lewis, P. A.; W. M. Noble, Asst. P. A.; A. L. Weyand, Supt.; W. W. Benner, Supt.; M. E. Ake, Prod. Mgr.; L. G. Fairbank, Sales Mgr.; R. R. Jones, M. M.	Firestone Park
YY	GENERAL TIRE & RUBBER CO., THE W. O'Neil, Pres.-G. M.; Robt. Tredell, Plant Engr.; C. J. Jahant, Gen. Supt.; J. G. Stoller, P. A.	Englewood Ave. (E. Akron)
YY	GOODRICH, B. F. CO., THE B. G. Work, Pres.; H. K. Raymond, V. Pres.-Chg. Prod.; W. C. Geer, V. Pres.; W. O. Rutherford, V. Pres.; W. A. Means, V. Pres.; F. C. Van Cleef, Secy.; L. D. Brown, Treas.; S. B. Robertson, Ch. Engr.; A. D. Moss, Pur. Agt.	S. Main St.
YY	GOODYEAR TIRE & RUBBER CO., THE E. G. Wilmer, Pres.; G. M. Stadelman, V. Pres.; P. W. Litchfield, V. Pres.-Fcty. Mgr.; H. H. Springford, Asst. to Pres.; P. H. Hart, Treas.; P. E. H. Leroy, Asst. Treas.; C. A. Stillman, Secy.; W. D. Shilts, Asst. Secy.; C. F. Stone, Asst. Secy.; C. H. Brook, Comptroller; W. C. State, Mech. Engr.; Wm. Stephens, Gen. Supt.; Elmer Clark, Master Mech.; E. H. Brooks, Pur. Agt.	1144 E. Market St.
R	IMPERIAL ELECTRICAL CO., THE Jno. Hearty, Pres.-G. M.; K. Ross, V. P.-Supt.; C. S. McQueeney, Secty.-P. A.; Ben H. Logan, Ch. Engr.; M. Berthold, Elect. Engr.-Supt.	Ira Ave.
B-H-X-DD	INDIA MACH. & RUBBER MOLD CO., THE Walter Wenk, Pres.; Geo. W. Williams, Gen. Supt.	Cor. Hill & Forge Sts.
E-V-C-RR	INTERNATIONAL HARVESTER CO., THE J. J. Rodgers, Gen. Wks. Mgr.; Geo. E. Smith, Secy. to Wks. Mgr.; H. E. Derr, Local Ch. Engr.; W. H. Edgar, Gen. Pur. Agt. (Chicago, Ill.); G. C. Morgan, Supt.-Pur. (Local); Chas. Bevington, Asst. Fcty. Mgr.	113 Center St.
H-X	KNAPP, JOHN SONS FDRY. CO. A. W. Knapp, Pres.; Jno. Knapp, S. T.-P. A.; Chas. Knapp, Supt.	Sweitzer & Steiner Aves.
B-H-X-DD	KUHLKE MACH. CO. M. D. Kuhlke, Prop.-G. M.-P. A.	45-58 W. Exch St.
C	McNEIL BOILER CO., THE Benj. Campbell, Pres.-G. M.-P. A.; C. W. Berry, S. T.; C. Riddle, Supt.	Cor. Crosier & Sweitzer Aves.
B-H-X-DD	MECHANICAL MOLD & MACH. CO., THE A. I. Kittinger, Pres.-G. M.; H. A. Tham, Treas.; Geo. C. Koch, Supt.; H. M. Haas, P. A.	25 E. Crosier Ave.
C-EE-DD	MIAMI BOILER & MCH. CO. Chas. Leonard, G. M.-Supt.	816 Miami St.
BB-I-K	MILL & MINE SUPPLY CO., THE W. W. Sharp, Pres.-G. M.; Fred Good, P. A.; H. Letcher, Mgr. (Plumb. Dept.).	211-15 S. Broadway St.
YY	MILLER RUBBER CO., THE Jacob Pfeiffer, Pres.; W. F. Pfeiffer, V. P.-Gen. Mgr. S. T.; A. P. Lewis, Ch. Engr.; W. C. McConnell, Gen. P. A.; G. W. Bulley, Conslt. Eng.; R. P. Griffith, Supt.	1247-69 High St.
DD-II	NITZ & DARKOW C. P. Nitz, L. C. Darkow, Props.	70 E. Miller Ave.

AKRON, SUMMIT COUNTY, OHIO

Class	Firm and Personnel	Address
DD-II	NYE H. MACH. CO. Harry Nye, Pres.-G. M.-Supt.	905 Miami St.
N	OHIO WIRE GOODS MFG. CO., THE C. W. McLaughlin, Pres.; Christ Franz, V. P.-G. M.; G. F. Faber, Supt.	964 Hazel Aye.
ZZ-N	ORNAMENTAL IRON WKS. CO., THE A. J. Becker, V. P.; Fred Zindel, Gen. Mgr.; W. A. Boesche, Secy.-P. A.; Andrew Neidert, Supt.	929-39 Sweitzer Ave.
	PALMER MATCH CO., THE C. H. Palmer, Pres.; W. N. Palmer, V. P.; Thomas A. Palmer, S. T.; John Denemead, Ch. Engr.	Metropolitan Bldg. (Genl. Offices)
BB-I-PP-K-NN OO	PATTISON, W. M. SUPPLY CO., THE V. A. Schiller, Local Sales Mgr.	Hamilton, Bldg.. (M. O. Cleveland, O.)
DD-II	PFAHL GAUGE & MFG. CO., THE Fred L. Pfahl, Prop.-Supt.	85-87 E. Voris St.
YY	PHILADELPHIA RUBBER WKS. CO., THE (Alkali Division) J. S. Lowman, V. P.; H. G. Day, Gen. Eng.; D. A. Metzler, Supt.; C. Miller, P. A.; Jos. B. Frey, M. M.	123 Bartges Ave.
YY	PHOENIX RUBBER CO. Theo. Krumeich, Pres.; F. R. Ormsby, V. P.; S. G. Rigdon, S. G. M.-P. A.; H. A. Krumeich, Gen. Supt.	Wigley Ave.
DD-B-II-L	PORTAGE MACH. & ENGR. CO. M. M. Mathews, Pres.; Jno. Cimarick, S. T.; Geo. Cimarick, G. M.-Supt.-P. A.	99 Steiner Ave.
II-DD	SACKMANN MFG. CO. Information withheld	35 Bowery St.
DD-T-EE-II	SOUTH END MACHINE CO., THE A. A. Replogle, Supt.	96 E. Miller Ave.
	STANDARD PUMP & ENGINE CO., THE	730 Carroll St. (See Adamson Mach. Co.)
C-A-B-C	STAR DRILLING MACH. CO., THE D. B. Duff, Pres.; W. M. Dabney, V. P.; J. M. Bashline, Secty.-Asst. Treas.-G. M.; J. P. Sapp, Ch. Eng.; J. E. Craig, Supt.	475 Washington St.
YY	STAR RUBBER CO., THE	1025 Sweitzer Ave.
YY	L. H. Firey, Pres.-G. M.; J. A. Christie, Supt.; J. W. Dessecker, P. A.	
F-X-H	STATE FDRY. & PATTERN CO., THE Robt. Hinman, Supt.	88 Elinora Ave.
DD-EE	SUMMIT MOLD & MACH. CO., THE J. G. Chalfant, Pres.-G. M.-P. A.; S. R. Gates, Supt.	Crosier Ave.
YY	SWINEHART TIRE & RUBBER CO., THE T. F. Walsh, Pres.-G. M.; S. B. Neal, Gen. Supt.; M. D. Tremelin, Ch. Engr.; G. D. Sullivan, P. A.	Howard & North Sts.
GGG-TT-QQ	TAPLIN-RICE-CLERKIN CO., THE Wm. Clerkin, Pres.-G. M.; R. W. Sethman, Mch. F.	177 S. Bdway St.
B-P-X-W-Z-CC	WELLMAN-SEEVER-MORGAN- CO., THE John Riise, Gen. Mgr.; E. K. Allen, Pur. Agt.; Andy Pegancher, Supt.	S. Akron (M. O. Cleveland)
KK	WHITMAN & BARNES MFG. CO., THE W. H. Eager, V. P.-G. M.; Carl Soderlund, Ch. Engr.; Geo. Hine, Fcty. Supt.; J. S. Coulter, P. A.	114 E. Buchtel Ave.
B-DD-II	WILDEY MACH. & MFG. CO., THE Carl Wildey, Prop.-Supt.-P. A.	764 Miami St.
B-Y-H-X-DD	WILLIAMS FDRY. & MACH. CO., THE F. E. Holcomb, Pres.-G. M.; Wm. J. Slater, S. T.; C. E. Walters, Ch. Engr.; J. Flynn, Supt.; O. L. Morgan, P. A.	50-66 Cherry St.
QQ-GGG	WISE FURNACE CO., THE J. W. Myers, Pres.; W. G. Wise, V. P.-Gen. P. A.; C. Morgan, Treas.; D. C. Siegfried, Secy.; Atlee Wise, Supt.	98 Lincoln Ave.
QQ-GGG	X-X CENTURY HEATING & VENTILATING CO., THE Jno. Kerch, Pres.-G. M.; Geo. Maag, V. P.; P. T. McGuckian, Secy.-P. A.; Wm. A. Garver, Supt.-Treas.	Heintz & Ira Aves.

ALLIANCE, STARK COUNTY, OHIO

Class	Firm and Personnel	Address
H-X	ALLIANCE BRASS & BRONZE CO., THE Robt. Hopkins, Pres.-G. M.; Nora Hopkins, V. P.; A. L. Shaw, Secy.-Treas.-P. A.	201 Hartzell St.
P-B-R-ZZ-CC	ALLIANCE MACH. CO., THE W. H. Purcell, Pres.; W. J. Fennerty, V. P.; M. S. Milbourn, Sec.-Treas.; Chas. Williamson, Asst. Supt.; Jno. Mathewson, Supt.; G. G. King, P. A.	1049 S. Mahoning Road.
F	ALLIANCE PATTERN WKS. Oliver Linton, G. M.-P. A.; Alfred Tilley, Supt.	Freedom St.
ZZ	ALLIANCE STRUCTURAL CO., THE G. W. Shem, Pres.; G. C. Garlow, V. P.; G. G. King, Secty. P. A.; M. S. Milbourn, Treas.; E. Ramsey, Gen. Supt.	E. Auld St.
G-H-X	AMERICAN STEEL FOUNDRIES A. Robertson, G. M.-P. A.	1000 Broadway St.
E	BUCKEYE JACK MFG. CO., THE O. F. Transue, Pres.; Frank Transue, V. P.; E. C. Bates, Treas.-G. M.-P. A.; C. J. Bates, Supt.	W. Gaskill & C. & P. R. R.
KK	BUCKEYE TWIST DRILL CO., THE O. F. Transue, Pres.; W. H. Purcell, V. P.; F. E. Dussell, Treas.; A. A. Mulac, G. M.; R. H. Cunningham, Supt.; J. G. Eck, Engr.; J. F. Meyers, M. M.	W. Ely St.
RR-B	CLEVE. IMPLEMENT CO., THE F. D. Moody, G. M.	W. Gaskill St.
BBB	ELECT. FURNACE CO., THE T. F. Baily, V. P.; E. G. Ernst, Treas.-Gen. Mgr.; F. T. Cope, Ch. Engr.; J. P. Conway, P. A.; G. P. Lozier, Supt.	503-508 Alliance Bnk. Bldg.
III	McCASKEY REGISTER CO., THE E. A. Langenbach, Pres.; O. F. Transue, V. P.; F. E. Henry, Secy.-Treas.-P. A.; W. E. Dunning, Wks. Mgr.	Rush St.
H-X-DD	MACHINED STEEL CASTINGS CO., THE W. H. Purcell, Pres.; W. E. Trump, 1st V. P.-Gen. Mgr.; H. Y. Stuckey, Secy.; J. B. Freer, Treas. P. A.; R. H. Donaldson, Gen. Supt.	So. Mahoning Road.
P-CC-ZZ-B-R-L	MORGAN ENGR. CO. Col. W. H. Morgan, Pres.; W. H. Ramsey, Secy.; N. C. Fethers, Asst. to Pres.; T. D. Russell, Treas.; J. H. Anderson, Gen. Mgr.; C. L. Taylor, Ch. Engr.; T. T. Buchanan, Pur. Agt.	Penn R. R.
G-JJ-H-X-DD-C	REEVES BROS CO. A. G. Reeves, Pres.; J. A. Reeves, V. P.; A. A. Reeves, Treas.; H. L. Walthour, Secy.; G. H. Newton, Supt.	338 Rush St.
D-M	TRANSUE & WILLIAMS STEEL FORGING CORP. O. F. Transue, Pres.; Frank Transue, V. P.-Gen. Mgr.; F. E. Dussell, Secy.-Treas.-P. A.; C. R. Transue, Supt.	W. Ely Rd.
A-B-AA-E	WOODS ENGINEERING CO., THE F. C. Woods, Pres.; F. A. Hobbs, Gen. Mgr.-Supt.-P. A.	108 E. Patterson St.

AMHERST, LORAIN COUNTY, OHIO

U	U. S. AUTOMATIC CO., THE W. H. Schibley, Pres.; A. J. Uthe, V. P.-G. M.-P. A.; A. G. Menz, Sec.-Treas.; J. T. Annas, Sales Mgr.	
---	---	--

ARCHBOLD, FULTON COUNTY, OHIO

D-K-H-X	ACME LEVEL & MFG. CO., THE C. W. Waldvogel, Pres.-G. M.-Ch. Engr. Fcty. Mgr.; Adam Schrank, Vice Pres.; John T. Newton, Secty.-P. A.-Sales; A. J. Stamm, Treas.	
---------	---	--

ASHLAND, ASHLAND COUNTY, OHIO

H-X	ASHLAND BRASS FOUNDRY. Information withheld.	
-----	---	--

THE MOTT & MERRYWEATHER MACHINERY CO.

Cleveland
Cincinnati
Detroit
Pittsburgh

ASHLAND, ASHLAND COUNTY, OHIO

Class	Firm and Personnel	Address
M-T-X-DD-E	ASHLAND MFG. CO., THE. Information withheld.	
M-T-X-DD-E	ELITE MFG. CO. P. E. Countryman, P. A. (Partner); E. L. Kilhefner (Partner); J. H. Burkholder (Partner).	
YY	FAULTLESS RUBBER CO., THE. T. W. Miller, Pres. Treas.; P. A. Myers, V. P.; C. D. Hubler, V. P.; W. H. Balch, V. P.; I. L. Miller, Secty.-P. A.; E. F. Miller, Gen. & Fcty. Mgr.; A. Needham, Ch. Engr.	
DD	HUNTER, JAS. S. James S. Hunter, Prop.	
NN-RR	MEYERS, F. E. & BROS. CO., THE. F. E. Myers, Pres.; P. A. Myers, V. P.; F. E. Kellogg, S. T.; E. A. McDowell, P. A.	
D-L-X-K	TOPPING MFG. CO., THE. W. V. B. Topping, Pres.; R. R. Leeds, V. P.; Geo. M. Bear, Secy.-Treas.-P. A.	246 E. 4th St.

ASHTABULA, ASHTABULA COUNTY, OHIO

D-RR	AMERICAN FORK & HOE CO., THE	(See Cleveland, Ohio)
D-E	ASHTABULA BOW SOCKET CO. R. H. Pfaff, Pres.; Charles Pfaff, V. P.; F. K. Lewis, Secy.-Treas.-Fcty. Mgr.; G. B. Hill, P. A.	Cor. Prosp. & Ann Sts.
GG	ASHTABULA CORRUGATED BOX CO., THE G. C. Hubbard, Pres.-Treas.; Burritt S. Hubbard, Secy. G. M. Fcty. Mgr. P. A.; Geo. C. Hubbard, Jr., Prod. Mgr. Asst. P. A.; D. F. Armstrong, Gen. Supt.; E. P. Sherman, Sales Mgr.	66 Ann St.
G-JJ	ASHTABULA STEEL CO., THE. Robert Lock, Pres. Gen. Mgr.; T. J. Rinnick, Secy.; H. M. Kunkle, Treas.; W. J. Kunkle, P. A.; E. H. Werner, Ch. Engr.	
	BARBER MFG. CO. J. B. Barber, Prop.; O. L. Skinner, P. A.	
A-M-X	McKINNON IRON WKS., THE. J. O. McKinnon, Pres.; H. S. McKinnon, V. P.; H. A. McKinnon, S. T.-G. M.-P. A.; E. W. Corcoran, Gen. Supt.	
WW-B-H-X-	PHOENIX FDRY. & MACH. CO., THE. Samuel Sweedenburg, Prop.-P. A.	
DD	SOUTH PARK AUTO MACH. SHOP. D. B. Vantassel, Prop.	

ATHENS, ATHENS COUNTY, OHIO

H-X-DD	ATHENS FDY. & MCH. CO. Information withheld.
--------	---

BARBERTON, SUMMIT COUNTY, OHIO

C	BABCOCK & WILCOX CO., THE C. R. Sadler, Gen. Supt.; L. I. Langvandt, Asst. Supt.-Ch. Engr.; J. C. Frank, P. A.	
H-X	BARBERTON FDRY CO., THE Jas. A. Lanigan, V. P.-G. M.-P. A.	Huston St.
B-DD	DIAMOND MATCH CO., THE (MCH. DIV.). J. M. Willard, Gen. Supt.-Mgr.; V. A. Johnson, P. A.	
YY	ELECT. RUBBER RECLAIMING CO. J. S. Benner, Secty.-G. M.; F. W. Albrecht, Treas.; R. J. Sanderson, Supt.	
H-X-DD	FRANZ FDRY. & MACH. CO., THE. Christian Franz, Pres.; C. W. Franz, V. P.; J. A. Brittain, Secty.; W. H. Parry, Treas.	

HIGH CLASS EMPLOYMENT SERVICE FOR
Who? Est. 1906 **INTERSTATE BUSINESS EXCHANGE** Est. 1906
MAIN 3629 658 ROSE BUILDING CLEVELAND Executives, Engineers,
Draftsmen, Salesmen,
Office Men and Women

BARBERTON, SUMMIT COUNTY, OHIO

Class	Firm and Personnel	Address
XX-R	OHIO INSULATOR WKS. A. O. Austin, Ch. Engr.-G. M.; C. H. Meacham, Office Mgr.-P. A.	
AAA	PITTSBURG PLATE GLASS (COLUMBIA CHAMICAL DIV.) H. A. Galt, V. P.-G. M.; A. W. Sample, Ch. Engr.; R. G. Ingram, P. A.; G. L. Huston, Supt.	M. O. Pittsburg, Pa.)
H-X-K	PITTSBURGH VALVE & FITTING CO., THE E. E. Billings, Gen. Supt.; W. A. Walker, Asst. Supt.; Albert Gartrell, P. A.; J. Corey, Ch. Engr.	Newell St.
H-X	PORTAGE FOUNDRY CO., THE W. E. Wilson, Pres.; S. W. Harris, V. P.; L. W. Hopkins, Secy.-Treas.-P. A.	Huston St.
YY	RUBBER PRODUCTS CO., THE Wm. A. Johnston, Pres.; C. C. Schultz, G. M.; Ray Miller, P. A.	
H-X	SEMI-STEEL FDRY. CO., THE Herman Peterson, Pres.; August Schmidt, V. P.; C. M. Tyler, Sec.-Treas.; G. A. Schwarz, Supt.	
	VULTEX CO., THE	(See Elect. Rubber Reclaim.)

BARNESVILLE, BELMONT COUNTY, OHIO

S-H-X	WATT MINING CAR WHEEL CO., THE J. W. Watt, Pres.-Treas.; P. H. Laughlin, Secy.-Gen. Mgr.; C. W. Watt, Ch. Engr.; H. H. Watt, Gen. Supt.; J. W. Ellis, Master Mech.; E. B. Watt, P. A.; W. C. Wilson, Sales Mgr.	
-------	---	--

BATAVIA, CLERMONT COUNTY, OHIO

H-X	BATAVIA FOUNDRY COMPANY. G. R. Wilke, Prop.	
Y	CARROLL, L. W. MFG. CO. L. W. Carroll, Prop.	
A-B	CARROLL JAMIESON MCH. TOOL CO., THE. Information withheld.	
H-X	GELHAUSER BRASS FDY. CO. Information withheld.	

BEACH CITY, STARK COUNTY, OHIO

G-JJ	MOTORS SHEET STEEL CO., THE. J. E. Montgomery, Pres.; H. Hildenbiddle, V. Pres.; C. E. Freeland, Secy.-Treas.-G. M.-P. A.; J. M. Rodgers, Sales Mgr.	
------	--	--

BEDFORD, CUYAHOGA COUNTY, OHIO

XX	BEDFORD CHINA CO. THE. Harry Bailey, Pres.-G. M.-P. A.; A. M. Walker, V. P.; Geo. Williams, Secty.; Wm. Dunbar, Treas.; A. H. Podwell, Gen. Supt.	Stop 24
H-X	BEST FOUNDRY CO., THE. (AMER. STOVE CO.) Henry Moulder, G. M.-P. A.; S. J. Fromont, P. A.; Thos. Schumacher, Gen. Supt.	Stop 28.
H-X-K	HOLMES BRONZE FDRY. CO., THE R. F. Huber, Pres.; R. E. Fleming, V. P.-G. M.; Edw. H. Peck, Secty.-Prod. Mgr.-P. A. Sales Mgr.; J. H. Mills, Treas.; Jno. G. Wardley, Gen. Supt.	566 Main St.
P-B-R-CC-ZZ	McMYLER INTERSTATE CO., THE. R. W. Kaltenbach, Pres.-G. M.; Justin Griess, V. P.-Sales Mgr.; F. W. Lovell, Secty.; H. H. Hammond, Treas.; R. W. Crist, Ch. Engr.; L. E. Gulliford, Prod. Mgr.; E. F. Hammond, P. A.; L. M. Rhodes, Gen. Supt.; A. Fronek, M. M.	

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

BELLAIRE, BELMONT COUNTY, OHIO

Class	Firm and Personnel	Address
D	AMERICAN STAMPING & ENAM. CO., THE. M. R. Bissell, Wks. Mgr.; C. A. Blackburn, Supt.	
DD	BELLAIRE ENGINEERING & MCH. CO. Information withheld.	
F	BELLAIRE PATTERN CO. Information withheld.	
GGG	BELLAIRE STOVE CO., THE. H. Roemer, Pres. (Milwaukee, Wis.); L. E. Leach, Secy.; R. Johnson, Treas.	
XX	BELMONT TUMBLER CO. Harry A. Neff, Pres.; Jas. W. Stewart, V. P.; R. C. Faris, Secy.-Treas.-P. A. Sales Mgr.; H. E. Turner, Gen. Supt.-Asst. -P. A.	27 Water St.
G-JJ	CARNEGIE STEEL CO. W. C. Carnahan, Wks. Mgr.	(Genl. Offices, Pittsburg, Pa.).
H-X	DORER, C. L. FOUNDRY CO. Information withheld.	

BELLEFONTAINE, LOGAN COUNTY, OHIO

H-X-K	ATLAS BRASS CO. W. J. Senblin, Mgr.-Pur. Agt.
DD	CLINGERMAN MACHINE CO. B. Clingerman, Prop.
D-GG	KAUFFMAN MACHINE CO. W. Metz, Supt.-Pur. Agt.

BELLEVUE, HURON COUNTY, OHIO

GGG-E	BELLEVUE MFG. CO., THE. F. A. Knapp, Pres.-Treas.; J. L. Miller, V. Pres.-Fcty. Mgr.; J. F. Martin, Secy.-G. M.-P. A.
R	CARBALLOY PRO. CO., THE. Information withheld.
E	COLLIER MOTOR TRUCK CO., THE. Information withheld.
ZZ	KLEIN STRUCTURAL STEEL CO., THE. C. P. Klein, Pres.-G. M.-P. A.; W. L. Willing, V. P.; C. W. Burk, Secy.-Treas.; A. C. Yingling, Asst. Secty.-P. A.; F. L. Hiss, Ch. Engr.; F. W. Hager, Fcty. Mgr.-Supt.; L. H. Burr, Sales Mgr.
RR	OHIO CULTIVATOR CO., THE. H. C. Stahl, Pres.-Treas.; D. Seltzer, V. P.-G. M.; E. A. Kemp, Secty.; R. H. Griffiths, Ch. Engr.; W. C. Transue, P. A.; B. Rollman, Prod.-Gen. Supt.; E. J. Moyer, M. M.; D. B. Mortley, Sales Mgr.

BELLVILLE, RICHLAND COUNTY, OHIO

H.X.DD	BEMILLER FOUNDRY & MACHINE CO., THE. L. M. Garber, Pres.; D. J. Bemiller, V. P.-G. M.-Fcty. Mgr.; Lisle M. Gable, S. T.-P. A.
--------	--

BEREA, CUYAHOGA COUNTY, OHIO

RR-H-X	DUNHAM COMPANY, THE. W. J. Dunham, Pres.; J. R. Dunham, V. P.-Fcty. Mgr.-Supt.; H. D. Mattison, Secty.; R. E. Dunham, Treas.-G. M.; H. D. Guy, P. A.; R. M. Krause, Ch. Engr.; F. R. Weddell, Prod. Mgr.
E	LIBERTY METAL PRODUCTS CO., THE. Roscoe Bean, Prop.
L-DD-B	MATTHEWS, JOHN G. John G. Matthews, Prop.
U	OHIO NUT & BOLT CO., THE. H. G. Wilkinson, Pres. Secy. G. M.; R. J. Whelan, P. A.-Engr.; John Skavage, Supt.

OHIO
SALES
OFFICE



MORSE



DRIVES



ENGINEERS
BUILDING
CLEVELAND

BIG PRAIRIE, HOLMES COUNTY, OHIO

Class	Firm and Personnel	Address
R-K	MONITOR SAD IRON CO., THE. Information withheld.	

BLANCHESTER, CLINTON COUNTY, OHIO

NN	FULFLO PUMP CO., THE. Information withheld.	
DD	REEVES, W. W. W. W. Reeves, Prop.	

BLUFFTON, ALLEN COUNTY, OHIO

RR	BLUFFTON MFG. CO., THE. A. D. Lugibihl, Pres.; J. E. Lugibihl, V. Pres.; H. D. Zehrbach, Secy.-Treas.-Gen. Mgr.	
B-MM	BLUFFTON SLAW CUTTER CO. John Fett, Pres.; Clair Fett, Secy.-Pur. Agent; S. L. Kimmell, Fcty. Mgr.	
D-Q	DILLER MFG. CO., THE. W. E. Diller, Pres.; P. L. Triplett, Secy. Trea. P. A.; Hector Kibele, Fcty. Mgr.	
DD-II	SCOTT & EWING COMPANY. Frank Scott, Pres.-Gen. Mgr.-P. A.; E. R. Ewing, Secy.	

BOWLING GREEN, WOOD COUNTY, OHIO

DD-E	ANDERSON PISTON CO., THE. H. H. Elwood, Pres.; L. J. Lisemer, V. Pres.; Chas. S. Hatfield, Secy.; John H. Lincoln, Treas.; C. H. Kirby, Ch. Engr.-Sales Mgr.; C. C. Anderson, Gen. Supt.	110 N. Main St.
DD-II	BOWLING GREEN DIE & TOOL CO., THE. Information withheld.	
EE	BOWLING GREEN WELDING CO. Information withheld.	
E	STEWART MOTOR CAR CO., THE. Information withheld.	
RR	THORNBURGH MFG. CO., THE. H. C. Babcock, Pres.-Treas.	
A-B-E-M-Y	UNIVERSAL MACHINE CO. J. W. Urschel, Pres.; Robt. Place, V. P.; C. Urschel, Secty.; B. H. Urschel, Treas. G. M.; L. Boyd, Ch. Engr.; G. F. Gomersall, P. A.; C. E. Gebert, Fcty. Mgr.	
C	WERNER MFG. CO., THE. Information withheld.	

BRADNER, WOOD COUNTY, OHIO

B	IRON KING MFG. CO., THE. N. F. Bell, Pres.; E. T. Mason, V. P.; C. H. Kortier, Secy.-Treas.-G. M.-P. A.; Frank Bryan, Fcty. Mgr.	
---	--	--

BREMEN, FAIRFIELD COUNTY, OHIO

D	BREMEN METAL STAMPING CO., THE. Information withheld.	
---	---	--

BREWSTER, STARK COUNTY, OHIO

S	WHEELING & LAKE ERIE SHOPS. J. F. Hill, Supt. Motive Power.	
---	---	--

BRIDGEPORT, BELMONT COUNTY, OHIO

Class	Firm and Personnel	Address
DD	WILCOX MACHINE COMPANY. Information withheld.	

BRYAN, WILLIAMS COUNTY, OHIO

K	BRYAN MFG. CO., THE. W. H. Lane, Pres.; M. V. Garver, S. T.-G. M.-P. A.	
F-DD-II-B	BRYAN PATTERN & MCH. CO., THE. E. C. Hagener, Pres.; C. L. Newcomer, Secy.; George F. Solier, Treas.; L. M. MacDonald, Gen. Mgr.	
DD-U	BRYAN SCREW MCH. PRODUCTS CO., THE. C. L. Newcomer, Pres.; H. D. Spangler, Secy.; J. C. Markey, Treas.-G. M.-P. A.; C. W. Thomas, Fcty. Mgr.-Gen. Supt.; W. W. Kerns, Asst. Pur. Agt.	Wilson St.
VV	DELITE MFG. CO., THE E. C. Carroll, Pres.-Gen. Mgr.-Pur. Agt.; A. L. Gebhard, Secy.; N. W. Carroll, Treas.	228 W. High St.
NN	FOLK, S. E. & CO. S. E. Folk, Prop.	
D	OHIO ART COMPANY. Henry S. Winzeler, Prop.	

BUCYRUS, CRAWFORD COUNTY, OHIO

D-H-X	BUCYRUS COPPER KETTLE CO. J. Geiger, Pres.; J. D. Geiger, V. Pres.-Mgr.-Pur. Agt.; H. A. McKinnon, Secy.	
A-B-DD-H-X	CARROLL FDY. & MCH. CO. Information withheld.	
B-C-H-X-S CC-TT-DD	HADFIELD-PENFIELD STEEL CO., THE. R. C. Penfield, Pres.; L. W. Penfield, V. P.-Treas.; R. O. Perrott, Secty.; W. S. Stotoff, Fcty. Mgr.; V. V. Virtue, P. A.; Cuno Eichman, Ch. Engr.; A. S. Cunningham, Prod. Mgr.; O. L. Bradley, Gen. Supt.	
P-CC-ZZ	OHIO LOCOMOTIVE CRANE CO. C. F. Michael, Gen. Mgr.-Pur. Agt.; W. H. Picking; A. G. Stoltz; C. Gallinger; W. F. Reinemeyer, Supt.; F. A. Pawsey, Chief Engr.	
M-RR-R	SHUNK PLOW CO. J. V. Shunk, Supt.; M. E. Gardner, Secy. & Pur. Agt. TOLEDO & OHIO CENTRAL RY. Chas. Bowersox, M. M.	
DD-F	YOUNG & WHEELER. G. P. Young, Prop.; A. W. Wheeler, Prop.	

CADIZ, HARRISON COUNTY, OHIO

B-DD	GAMMETER, W. F. CO., THE W. F. Gammeter, Pres.; L. B. Gammeter, V. P.; F. O. Gammeter, Secy.-Treas.-P. A.; J. M. Gammeter, Supt.-Prod. Mgr.	Fourth Natl. Bank Bldg.
------	--	-------------------------

CAMBRIDGE, GUERNSEY COUNTY, OHIO

S-R	CAMBRIDGE FDY. & MACH. CO., THE H. E. Loomis, Pres. (Kirby Bldg., Cleveland, O.); E. C. Murray, Secy.; John W. Scott, Treas.; C. R. Harris, Gen. & Fcty. Mgr.; W. J. McFarland, P. A. (Kirby Bldg., Cleveland, O.)	Steubenville Ave.
G	CAMBRIDGE STEEL CO., THE. Wm. Rigby, Sr., Pres.; C. R. McIllyer, Secy.-Treas.; O. O. Bell, Gen. & Fcty. Mgr.-P. A.; H. M. Steele, Ch. Engr.; J. S. Nichols, Gen. Supt.	
BB-I-S	ROWLAND & PRICE STEEL & IRON CO., THE. Geo. D. Roland, Pres.-Gen. Mgr.; J. E. Patton, Secy.; A. R. Price, Gen. Supt.; L. E. Morgan, P. A.	



**MACHINE BOLTS
NUTS
CAP SCREWS
RIVETS**

STOVE BOLTS, CARRIAGE BOLTS, MACHINE
SCREWS, SPECIAL BOLTS FOR SPECIAL USES

The ATLAS Bolt and Screw Co.
Cleveland, U.S.A.

Code Address "ATLASBOLT" Western Union

The Elimination of Corrosion
RUST VS RUST-I-CIDE

The Rust is Changed—
It is No Longer Rust



Composition Pat. Feb. 3, 1920

**FOR RUSTY IRON
AND
STEEL SURFACES**

Non-Poisonous

Non-Burnable

Will not hurt the hands

Booklet on Rust-I-Cide is yours for the asking. Our services are at your disposal in connection with your rust problems.

The Rusticide Company
Cleveland, O.

RUST

Millions are lost annually through the rusting of iron and steel articles and surfaces.

One of the biggest problems in the metal trades is the elimination of corrosion.

It is a well-known fact that it is bad policy to paint over rust.

If the rust is not removed, the paint scales off in a short time, on account of rusting or oxidation continuing under the paint.

This refers also to other finishes such as enameling, japanning, etc.

The scraping method of rust removing is not only difficult but is ineffective as well, in that by this method, it is impossible to reach the fissures of the metal, where the rust has penetrated.

Scientifically rust is termed an "accelerator," meaning rust begets more rust.

Any substance that retards or stops the rusting process is termed an "inhibitive."

A chemical compound has been found, which inhibits instead of accelerates rust.

This compound is produced by RUST-I-CIDE.

"The rust is changed—it is no longer rust."

RUST-I-CIDE

Its Definition:

RUST-I-CIDE is a liquid preparation, applied to rusty iron or steel articles or surfaces to destroy rust and to form a coating for the prevention of rust.

Its Constituents:

RUST-I-CIDE is an active chemical—not an oil. While oil is an aid in detaching rust, it cannot chemically attack and destroy rust.

Its Application:

RUST-I-CIDE is applied to the rusty surface with brush, cloth or by the dipping process.

Its Results:

RUST-I-CIDE chemically kills rust—the rust disappears and a hard, rust-preventing coating takes its place, that can safely be covered with paint or enamel.

Its Safeness:

RUST-I-CIDE is safe and easy to handle. It is non-poisonous, non-burnable, therefore non-inflammable, and will not hurt the hands.

To sum up:

Corrosion can be eliminated and prevented—safely, thoroughly and economically with RUST-I-CIDE.



**TWIST DRILL
COMPANY
CLEVELAND**
NEW YORK - CHICAGO - LONDON

**We're Never Surprised When A "Peerless"
Reamer Hangs Up An Extraordinary Record.
It Happens So Often.**

CANAL FULTON, STARK COUNTY, OHIO

Class	Firm and Personnel	Address
M	FULTON DROP FORGE CO., THE. A. L. Eicher, Pres.-G. M.; H. B. Eicher, Asst. Mgr.-P. A.; Paul L. Jones, Gen. Foreman.	
S	FULTON-KENOVA MINE CAR CO., THE. C. K. Myers, Pres.; H. N. Myers, Asst. P. A.-Gen. Mgr.; J. V. Dugan, Supt. C. E. Gainey, Ch. Engr.	

CANTON, STARK COUNTY, OHIO

D-DD	ALLOY PARTS MFG. CO., THE732 Walnut Ave. S. E. H. M. Haugle, Pres.; A. J. Townsend, V. P.; K. R. Jenson, Secy.-Treas.-P. A.	
ZZ	AM. BRIDGE CO., THE20th & Dueber S. W. (Main Office Pittsburg, Pa.). H. L. Rankin, G. M.; W. G. A. Miller, P. A. (Pittsburg, Pa.); A. Kemery, Supt. J. W. Peterson, Engr.	
M-D-DD	AM. FORGE & MACH. CO., THE1650 Barth Court S. W. Jno. G. Rommel, Pres.; Thos. F. Turner Secty.; C. W. Stover, V. P.-Fcty. Mgr.-P. A.	
QQ	AMER. MINE DOOR CO., THE9th St. & Robin Court (S. E.). Maj. A. Vignos, Pres.; Alfred Vignos, Secy.-Treas.-G. M.-P. A.; Chas. Vignos, Asst. Mgr.; J. D. Johnson, Supt.	
	AMER. ROLL & FDY. CO., THE(See United Engineering & Fdry. Co.)	
G-JJ	AM. SHEET & TIN PLATE CO., THE15th & Henry Ave. S. W. (M. O. Pittsburg, Pa.) W. A. Harris, G. M.; E. W. Hanna, Ch. Engr.-Supt.; M. S. Dennis, P. A. (Pittsburg, Pa.)	
B-NN	ARCTIC ICE MACH. CO., THEMarket Ave. & Penn R. R. H. D. Pownall, Pres.; Frank Burger, Secy.-Treas.-Wks. Mgr.-P. A.; C. J. Weaver, Ch. Engr.; A. B. Sponhour, M. M.	
D-QQ	ARMOR CLAD MFG. CO., THE1730 15th St. W. W. Sproull, Pres.-Treas. P. A.	
D-QQ	BERGER MFG. CO., THE1038 Belden Ave. N. E. (See United Alloy Steel Corp.)	
	BERLOY STEEL CORP.(See United Alloy Steel Corp.)	
TT-B	BONNOT CO., THE722 Mulberry St. S. E. L. C. Bonnot, Pres.-G. M.; A. A. Oldham; W. Steel, Ch. Engr. (Powder Coal); Chas. F. Bonnot, Ch. Engr.; Wm. F. Leader, Supt.; V. Nist, P. A.; A. J. Burns, P. A.	
RR	BUCHER & GIBBS PLOW CO., THE800 2nd St. S. E. Jas. U. Fogle, Pres.-Treas-G. M.-P. A.; Homer Ringle, Supt.	
DD-II	BUCKEYE MACH. SHOP721 Cook Ave. D. H. Rose, Prop.-G. M.-Supt.	
D-QQ	CANTON ART METAL CO., THE920 Market Ave. (S.) A. B. Clark, Pres.-G. M.; E. R. Eckis, Treas.-P. A.; C. E. Saint, Adv. Mgr.; Frank Williams, Supt.	
E-DD-H-X	CANTON AUTO PARTS MFG. CO.Cor. McKinley & 9th Sts. M. E. Miller, Pres.-G. M.; Lawrence Allen, Fcty. Mgr.	
ZZ	CANTON BRIDGE CO., THEBelden & 10th St. (N. E.) W. C. Laiblin, Pres.-G. M.; H. Zarcher, Secy.-Treas.-P. A.	
N-H	CANTON CHAPLET & MFG. CO., THE334 3rd St. S. E. W. Shaeffer, Pres.-G. M.-P. A.; H. E. Case, V. P.; A. R. Turnbull, Supt.	
C	CANTON CITY BOILER WKS.624 Schroyer Ave. S. W. W. R. Fisher, C. L. Kiddey, Props.	
	CANTON CULVERT & SILO CO., THE(See United Alloy Steel Corp.)	
MM	CANTON CUTLERY CO., THE1212 5th St. (S. W.) Dr. W. Stuart Carnes, Pres.-G. M.-P. A.; C. E. Magill, Supt.	
H-X	CANTON-DETROIT FDY. CO., THE1255 Prospect Ave. (S. W.) G. F. Ebel, Pres.-G. M.-P. A.; B. C. Fitch, V. P.; E. A. McCuskey, Secty.; F. E. Widder, Treas.; Frank Sloan, Supt.	
M	CANTON DROP FORGE & MFG. CO., THE1143 Willet Ave. (S. E.) C. A. Brauchler, Pres.-G. M.; K. S. Goodin, Secy.-Treas.; M. Swihart, Ch. Engr.; K. F. Swollen, P. A.; G. Kahn, Supt.	

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

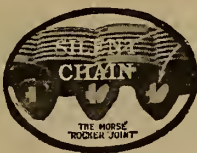
CANTON, STARK COUNTY, OHIO

Class	Firm and Personnel	Address
H-X-CC-WW	CANTON FDRY. & MACH. CO., THE W. J. Poyser, Pres.-G. M.; W. E. Slentz, V. P.-P. A.; W. C. Cavnah, Gen. Mgr.-Treas.-Supt.; Edw. Wesp, Engr.	3rd & Savannah Sts.
	CANTON INDUSTRIAL CORP. Howard Renshaw, Commissioner.	17 Erwin Blk.
DD-II	CANTON MACHINE SHOP CO. (PLT. 1) Frank De Corpes, Prop.-G. M.; Harry Fowler, Supt.	320 Rex Ave. (S. E.)
DD-II	CANTON MACH. SHOP CO. (PLT. 2) Frank De Corpes, Prop.; Leo Andes, Supt.	Rear 328 3rd St. (S. E.)
H-X	CANTON MALLEABLE IRON CO., THE Chas. Zorn, Pres.-G. M. Supt.; T. H. Rabe, Secy.-Treas.-P. A.	2403 13th St. (N. E.)
D-QQ	CANTON METAL CEILING CO., THE O. W. Renkert, Pres.; C. A. Weirich, Gen. Mgr.-P. A.	2138 Harrison Ave. (S. W.)
F	CANTON PATTERN & MFG. CO., THE T. M. Dubs, Pres.; Edw. R. Starkey, Gen. Mgr.-Secty.-P. A.-Supt.	Andrew Pl. (S. W.)
MM	CANTON SAW CO. C. H. Class, Prop.	700 Walnut St. (S. E.)
G-JJ	CANTON SHEET STEEL CO., THE (OF HYDRAULIC STEEL CO.) James H. Foster, Pres.; H. B. Bole, 1st V. P.; G. C. Brainard, V. P.; H. F. Pettee, Secty. Canton; R. E. Hayslett, Treas.; Chas. W. Vilas, G. M. Canton; W. B. Parry, Fcty. Mgr. Canton; M. L. Williams, P. A.; H. C. Shade, Asst. P. A.; F. H. Smith, Ch. Engr. Canton.	Genl. Offices, Cleveland, O.)
D	CANTON STAMPING & ENAMELING CO., THE H. T. Bebb, V. P. G. M.; E. F. Hoerger, Secy.-Treas.-P. A.; H. Coyle, Ch. Engr.; Harry G. Bebb, Supt.	Carnahan Ave. (N. E.)
H-X	CANTON STEEL FDRY. CO. W. H. Morgan, Pres.; T. D. Russell, Treas.; W. W. Davidson, G. M.-P. A.; D. J. Perdu, Ch. Engr.-H. E. Derwechter, Supt.	15th & Allen St. (S. W.)
G-JJ	CARNAHAN TIN PLATE & SHEET CO., THE J. E. Carnahan, Pres.; Edw. Langenbach, V. P.; Jno. F. Buchman, Treas.-P. A.; A. E. Maskrey, Supt.	Belden Ave. (N. E.)
D	CENTRAL ALUM. CO. W. S. Ruff, Pres.; Augustus Francis, V. P.; E. D. Dukrek, Secty.; R. C. Meyers, Treas.-G. M.	521 6th St. (S.E.)
D	CENTRAL METAL PROD. CORP., THE C. R. Jamison, Asst. to Pres.	Francis & Navarre (S. W.)
F	CENTRAL PATTERN WKS. C. J. Weaver, Wm. Arnold, Props.	1382 Market St. (S.)
ZZ-N	COLUMBIA IRON & WIRE WKS. CO., THE J. E. Rader, Pres.-Treas.-G. M.-P. A.; F. Yast, Supt.	Ninth St. & B. & O. R. R.
RR-MM	DICK, JOSEPH MFG. CO., THE Jos. Dick, Pres.-G. M.; C. F. Dick, Secty.; F. J. Dick, Treas.; Sidney Hamaker, Supt.-P. A.	1407 Tusc St. (W.).
	DIEBOLD SAFE & LOCK CO., THE J. C. Welty, Pres.-G. M.; A. N. Scott, V. P. & Fcty. Mgr.; J. P. Paca, Ch. Engr.; Wm. O. Golloway, Prod. Mgr.; Geo. E. Steck, P. A.; E. B. Sunderhaus, M. M.	818 Mulberry Rd. (S. E.)
R-AA-B	DILLON ELECT. CO., THE Chas. A. Dillon, Pres.; Howard Dillon, V. P.; A. S. Kring, Secy.-Treas.-P. A.-Supt.;	11th & Mahoning Rd. (N. E.)
	DUEBER WATCH CASE MFG. CO., THE Albert Dueber, Pres.-Treas.-G. M.; H. W. Detmering, Supt.-P. A.; Jos. Schibler, M. M.	Dueber Hgts.
DD-II	EFFINGER-MENEGAY MCH. & DIE CO. A. L. Menegay, Pres. Supt.	118 7th St. (S. W.)
K	ELBEL CO. Paul Gschwend, Pres.-Treas.-G. M.	824 Mulberry Rd. (S. E.)
R	ELECT. MOTOR & ENGR. CO. T. J. Newman, Prop.-G. M.-P. A.	2nd St. & B. & O. R. R.
QQ	ELLER MFG. CO., THE J. F. O'Day, Pres.; G. W. Hillibish, V. P.-G. M.-P. A.; C. C. Bolles, Secty.;	Camden Ave. S. W.
DD	ENGINE & MCHY. CO. L. W. Hogan, Pres.; T. J. Hogan, Fcty. Mgr.-Secty.-P. A.	1174 Marion Ave., cor. Navarre

OHIO
SALES
OFFICE



MORSE DRIVES



ENGINEERS
BUILDING
CLEVELAND

CANTON, STARK-COUNTY, OHIO

Class	Firm and Personnel	Address
D-K-DD	EVERHARD MFG. CO., THE C. H. Everhard, Pres.; H. H. Everhard, Fety. Mgr.-Secy.-Treas.-P. A.	317-19 Schroyer Ave. S.W.
EE	FLOWER WELDING CO. A. W. Flower, Pres.-G. M.-Supt.	707 2nd St. (S. E.)
H-X	FRANKHAM BRASS & BRONZE CO., THE Chas. Becker, Pres.-G. M.; Geo. Sieber, V. P.; J. F. Buckman, Secy.-Treas.-P. A.	
Toys	GIBBS MFG. CO., THE Elmer Gibbs, Pres.-G. M.; Harry E. Gibbs, Fety. Mgr.	6th St. N. E.
UU-H-X-E-DD	GILLIAM MFG. CO., THE B. T. Steiner, Pres.-G. M.; P. K. Davis, V. P.; S. G. Zimmerman, Secy.; R. Staley, Supt.	820 Savannah Ave. (N. E.)
H-X	GILLIAM MFG. CO., THE (FDRY.) Wm. J. Wray, G. M.-P. A.	1919 Navarre Rd. (S. W.)
YY	GORDON TIRE & RUBBER CO., THE H. B. McMaster, Pres.-G. M.; Chas. Foy, M. M.	1212 7th St. (S. W.)
AAA	GRASSELLI CHEMICAL CO., THE W. H. Keller, Supt.	Allen Ave. (S. E.) (M. O. Cleveland, O.)
C-EE-QQ	GUSSETT BOILER WKS., THE E. J. Gussett, Pres.-G. M.-Supt.	1140 Marion Ave.
	HAMPDEN WATCH CO., THE Albert M. Dueber, Pres.-Treas.; V. S. Corey, G. M.-Supt.-P. A.	Dueber Hgts.
	HARVARD CO., THE F. E. Case, Supt.-G. M.; F. A. Zimmer, Secy.-Treas.-P. A.	2206 13th St. (N. E.)
E	HERCULES MOTOR MFG. CO. Chas. Balough, V. P.-G. M.; G. W. Russell, Treas.-Mgr.; G. E. Hinkle, Ch. Engr.; Otto Kueper, Supt.; L. R. Schroyer, P. A.	Hollwell Pl.
DD	HOMER ENGINEERING CO. THE F. E. Homer, Pres.; Geo. Harland, V. P.; C. V. Homer, Secy.-Treas.; C. H. Bradshaw, Supt.; R. J. Dehn, Bus. Mgr.	323 5th St. (S. E.)
E	HOLMES AUTOMOBILE CO., THE Arthur Holmes, Pres.-Treas.-G. M.; Geo. W. Belden, Secty.; H. B. Massey, Ch. Engr.; F. H. Whitman, Supt.; J. E. Ade, P. A.; Elmer Smith, Asst. Supt.	Winfield Way (N. E.)
R	HOOVER SUCTION SWEEPER CO., THE W. H. Hoover, Pres.; H. W. Hoover, V. P.-Gen. Mgr.; Frank Hoover, Asst. G. M.; H. Earl Hoover, Ch. Engr.; Danl. Hoover, P. A.; H. E. Goughler, Supp. Agt.; W. F. Bailey, Prod. Mgr.-Supt.; Harry Evan, Supt. Maint.	N. Canton.
D	INTERSTATE ALUM. CO., THE Theo. Dubs, Pres.; P. M. Barnard, V. P.; W. M. Doolittle, G. M.	1435 6th St. (N. E.)
F	JOHNSTON PATTERN CO. H. P. Johnston, Pres.-G. M. P. A.	320 Rex Ave. (S. E.)
H-X	KELLY-COHEN FDRY CO., THE W. H. Kelly, Pres.-Secty. G. M.; E. L. Cohen, Treas.-P. A.	1204 Camden Ave. (S. W.)
YY	KELLY-SPRINGFIELD TIRE CO. T. C. Marshall, Gen. Fety. Mgr.; L. Mueller, Fety. Mgr.-Supt.; C. E. Grange, Asst. Supt.; A. E. Jones, M. M.; R. E. Murray, P. A. (Gen.); W. R. Williams, P. A. (Local).	Kelly Ave.
C-GG	KITTOE BOILER & TANK CO. G. H. Kittoe, Pres.; R. E. Belt, V. P.-G. M.; W. J. Oly, Secty.-P. A.	Bank Pl. & Camden Ave. (S.W.)
B-C-MM	KNIGHT MFG. CO., THE G. F. Knight, Pres.-Treas.; C. T. Knight, Gen. Mgr.-P. A.; Thos. Collier, Supt.	1500 Market Ave. (S.)
K	KOHLER, F. E. CO. F. E. Kohler, Pres.-Treas.; N. M. Bassinger, V. P.-G. M.; Camille Monnot, Secty.-P. A.	1006 Tusc (E.)
E-C	LUCIUS MFG. CO. THE C. V. Lucius, V. P. Treas. G. M.; H. B. Ramey, Secty.; J. E. Miller, Asst. Treas. P. A.	9 & Robbins Ct.
H-X	MOTOR CASTINGS CO. H. H. Timken, Ch. Bo. Dir.; R. W. Gallagher, Pres.; Chas. Balough, V. P.; G. W. Russell, Secy.-Treas.-P. A.; W. J. Hawn, Supt.	1105 3rd St. (S. E.)
DD-D-II	MILLER, BROWNLOW, C. C. Brownlow Miller, Prop.-Supt.	1718 9th St. (S. W.)

The Rose Machine & Spring Company

Builders of Special Machinery, Dies, Tools, Jigs, Fixtures and
General Machine Work. Springs Repaired, Reset and Oil Tempered.
D. H. ROSE—Bell 4872
719-721 Cook Ave. S.W. CANTON, OHIO

CANTON, STARK COUNTY, OHIO		
Class	Firm and Personnel	Address
B-RR	MILLER, H. H. INDUSTRIES CO., THE H. H. Miller, Pres.; M. E. Miller, Secty.-Gen. Mgr. P. A.; Leroy Pfouts, Ch. Engr.; Lawrence Allen, Supt.	920 Market Ave. (S.)
N	NAT. FABRICATING CO. THE G. L. Heibner, Pres.; R. E. Dice, S. T.; W. R. Adler, G. M. P. A.	1906 Mahoning Rd. (N. E.)
RR	NEY MFG. CO., THE D. D. Miller, V. P.-Treas.; F. W. Miller, Sec.-G. M.-P. A. Supt.	1006 High Ave.
MM	NOVELTY CUTLERY CO., THE Maj. A. Vignos, Pres.-G. M.	515 McGregor Ave.
H-X	OHIO ALUM. & BRONZE FDY. CO., THE L. F. Wind, Prop.-G. M.-Supt.	930 Market St. (W.)
F	PEERLESS METAL PATTERN WKS. C. E. Christian, G. M.-Supt.	1000 Tusc. (E.)
S	PENNSYLVANIA R. R. MACHINE SHOPS. W. R. Elsey, Ch. M. M.; W. B. Madara, G. F.-Mch. Shop.	
YY	REPUBLIC RUBBER CORP. R. W. Kent, G. M.-P. A.; Chas. O. Tice, Gen. Supt.; F. R. Levinger, M. M.	1120 High Ave. S. W. (M. O. Youngstown, O.)
D	REPUBLIC STAMP & ENAMELING CO., THE C. T. Carlson, 1st V. P.-Gen. Supt.; Peter Larson, Ch. Engr.; A. Seymour, P. A.	1325 Harrison Ave. (S.W.) (M. O. Reinkert Bldg.)
DD-E	ROSE MACHINE & SPRING CO., THE D. H. Rose, Pres.-Treas.-Supt.-P. A.; J. C. Atchison, Secty.	721 Cook Ave. (S. W.)
BB-I-K	SCIOTO VALLEY SUPPLY CO. L. C. Huesmann, Pres.; W. W. Ross, V. P.; J. L. Reed, Secty.; J. R. Davis, Treas.; H. E. Patrick, Dist. Mgr.; W. E. Pfeifer, Sales Mgr.; L. K. Benner, Sales Engr.; C. G. Corbett, Sales Rep.	210 Piedmont Ave. S. E. (Genl. Offices Columbus, O.)
F-H-N	SHANAFELT MFG. CO., THE J. A. Shanafelt, Pres.-G. M.	1228 4th St. (S. W.)
H-X	STARK FDY. CO., THE E. E. Miller, Pres.; Frank Andorka, V. P.; Geo. Cernik, Supt.	1711 Dillon Pl. N. E.
	STARK ROLLER MILLS CO., THE	1038 Belden Ave. (See United Alloy Steel Corp.)
K-RR	SWINEFORD, G. A. CO. G. A. Swineford, Pres.-Treas.-G. M.-P. A.; O. L. Swineford, Supt.; H. S. Lerch, Asst. Supt.	606 5th St. (S. W.)
E	TIMKER ROLLER BEARING CO., THE H. H. Timken, Pres.-G. M.; J. G. Obermier, Fcty. Mgr.; M. J. Lothrop, Asst. Fcty. Mgr.; T. V. Buckwalter, Ch. Engr.; J. H. Reifsnyder, Supt.; A. J. Sanford, Pur. Mgr.	1900 Dueber Ave. (S. W.)
D-Q-Q	UNION METAL MFG. CO., THE C. C. Barrick, Pres.-G. M.; C. L. Eshelman, V. P.-Sales Mgr.; H. O. Rastetter, Ch. Engr.; H. C. Drumm, Supt.; S. J. Druckenbrod, Secty.-P. A.	1410 Maple Ave. (N. E.)
G-JJ-M-H-X	UNITED ALLOYS STEEL CORP. E. A. Langenbach, Pres.; Geo. H. Charls, V. Pres.-G. M.; C. W. Kreeg, V. Pres.-S.-T.; H. C. Thomas, Gen. Supt.; G. W. Starr, Pur. Agt.; R. H. Dougherty, Prod. Mgr.	8th St. (N. E.)
R	UNITED ELECTRIC CO., THE Edw. A. Langenbach, Pres.; Harry Jones, V. P.; C. J. Adams, S. T.-P. A.; G. E. Post, G. M.-P. A.; Edw. A. Geib, Supt.	8th St. (N. E.)
B-H-X-DD	UNITED ENGR. & FDY. CO., THE (AM. DEPT.) Jno. Quinn, G. M.; C. J. Miller, Supt.	14th St. (N. E.) (M. O. Pittsburg, Pa.)
G	UNITED FURNACE CO., THE H. G. Dalton, Pres.; Harry Jones, V. P.; E. L. Hang; E. P. Williams, Treas.; H. B. Waha, Ch. Eng.; C. F. Kaufholz, Supt.; Harry Pickard, P. A.	E. Canton, O. (M. O. Cleveland, O.)
A-B-NN-DD	UNITED MACH. & MFG. CO. L. E. Griffith, Pres.-G. M.-P. A.; H. S. Colby, V. P.; J. R. Poyser, Secty.; W. H. Cavanaugh, Treas.; E. J. Neff, Supt.	816-20 Camden Ave. (S. W.)
A-B-DD-II	UNIVERSAL MACHINE & TOOL CO. J. L. Lehman, G. M.-P. A.; M. F. Weida, Supt.	1221 Mahoning Rd. (N. E.)
NN	WAGENER STEAM PUMP CO. W. H. Wagener, Prop.-G. M.-P. A.; E. J. Gerrish, Secy.-Treas.; Robt. Wagener, Supt.	Cook & 8th Sts. S. W.

THE MOTT & MERRYWEATHER MACHINERY CO.

Cleveland
Cincinnati
Detroit
Pittsburgh

CANTON, STARK COUNTY, OHIO

Class	Firm and Personnel	Address
M-EE-II	WEIDA, J. B. TOOL CO., THE J. B. Weida, Prop.	1503 3rd St. S. E.
BB-I-K	YOHE, W. S. SUPPLY CO. W. S. Yohe, Pres.-Gen. Mgr.	503 Mahoning Rd. S. W.

CARROLLTON, CARROLL COUNTY, OHIO

XX	ALBRIGHT CHINA CO., THE. F. W. Poland, Pres.; W. T. Palmer, V. P.; I. E. Mincks, Secty.-P. A.-Sales; J. I. Lore, Treas.-G. M.; J. F. McCarren, Fcty. Mgr.	
	BOWMAN-HOSTERMAN CO. Information withheld.	Br. Cleveland, O.
YY	TUSCAN TIRE & RUBBER CO. T. Saltsman, Pres.-Treas.; J. H. Richards, Secy.	

CELINA, MERCER COUNTY, OHIO

C-GG	CELINA MFG. CO., THE. J. E. Hattery, Pres.; R. R. Hattery, V. P.-G. M.-P. A.; E. P. Kreimendahl, Secy.-Sales Mgr.; H. Lenartz, Treas.	
DD	CELINA MACHINE WORKS. Information withheld.	
	CELINA SPECIALTY CO., THE. Walter Mersman, Pres.; Theo. Brandt, Secy.-Treas.	
	HARPONOLA CO., THE. Edmund Brandt, Pres.; H. J. Beam, Secy.; A. F. Harmburger, Treas.	
V-RR	MIAMI TRACTOR & MFG. CO., THE. Information withheld.	

CENTERBURG, KNOX COUNTY, OHIO

D	FAULTLESS ANCHOR & MFG. CO., THE. C. H. Bishop, Pres.; L. M. Dally, V. P.; A. W. Brown, S. T.; R. A. Baldwin, Gen. Mgr.-Supt.-P. A.	
---	--	--

CHAGRIN FALLS, CUYAHOGA COUNTY, OHIO

	ADAMS BAG CO., THE	(See Cleveland, Ohio)
Y-E	CLIMAX MOTOR DEVICES CO., THE. Stephen Jencick, Pres.-Wks. Mgr.; G. A. Schanze, V. P.; P. L. Schanze, S.-T.-P. A.; Stephen Jencick, Ch. Engr.	
H-X	HENRY FURNACE & FDY. CO., THE	(See Cleveland, Ohio)
B-H	OBER MFG. CO., THE. A. M. Ober, Pres.; G. R. Ober, Secty.-G. M.-Wks. Mgr.; J. R. Luse, P. A.	

CHILLICOTHE, ROSS COUNTY, OHIO

B	BUSER-POSTON TUFTING MCH. CO. B. C. Poston, Pres.-Secy.; W. E. Buser, Treas.	
E-S-H-X-DD	De WEESE, F. M. CO. K. D. Blosser, Gen. Mgr.	P. O. Box No. 94
DD	DESHLER MACHINE WORKS. August Deshler, Prop.; Joseph A. Deshler, Prop.	
	POSTON BALER COMPANY. B. C. Poston, Prop.	
H-X-DD	TIP TOP MACHINE & FOUNDRY CO. John Young, Prop.	

Kath and Baughman

Certified Public Accountants
Production Engineers
Cost Accountants
Tax Service

Schofield Building

Cleveland, Ohio
Main 2427

New York Office

346 Broadway

“Service Beyond the Contract”

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
A-B	ACME MACHINE TOOL CO., THE C. H. M. Atkins, Pres.; B. B. Quillen, V. Pres.; A. J. Jones, Secy.-Gen. Mgr.; C. Meier, Treas.; A. Bennett, Ch. Engr.	4955 Spring Grove Ave.
A-II-B	ADVANCE TOOL CO., THE Geo. Langen, Sr., Pres.; H. C. Oterbein, V. Pres.; L. Dickison Klayer, Secy.-Gen. Mgr. B. B. Quillen, Treas.; Fred Jenkins, Fcty Mgr.	Canal & Jackson Sts.
E	AHRENS-FOX FIRE ENGINE CO., THE John P. Ahrens, V. Pres.-Gen. Mgr.; Geo. W. Krapp, Secy.-Treas.-Pur. Agt.; H. Shaffer, Supt.	Alfred & Cook Sts.
R-B	ALLIS-CHALMERS MFG. CO., THE E. R. Knight, Gen. Supt.; Geo. C. Merckel, P. A.	(Bullock Works)
Z	ALVEY-FERGUSON CO., THE M. V. Bernheim, Pres.; E. P. Bernheim, V. Pres.; W. H. Argabrite, Treas.; Oscar Koehler, Pur. Agt.; J. W. Schaffner, Ch. Engr.; C. L. Koehler, Supt.	Oakley
C-K-R-QQ-OO	AMERICAN BLOWER CO. James Inglis, Pres.; F. R. Still, V. Pres.-Secy.; J. F. G. Miller, V. Pres.-Treas.; E. F. Morton, Fcty. Mgr.	
WW-B-D	AMERICAN CAN CO. S. A. Chubbick, Supt.; H. Streit, Pur. Agt.	Spring Grove Ave. & Fergus St. (Main Office Broadway, New York City)
DD-H-X	AMERICAN COPPER & BRASS WKS., THE E. A. Ellerhorst, Prop.	612 E. Front St.
XX	AMERICAN GLASS & BEVELING CO., THE John F. Sprengard, Pres.; Jos. H. Reis, V. Pres.-Treas.-G. M.; Harry J. Reis, Secy.-P. A.; Wm. J. Schwein, Fcty. Mgr.; E. C. Crouse, Sales Mgr.	Clark & Harriet Sts.
VV	AMERICAN LAUNDRY MACHINE CO., THE E. H. Bliss, Ch. Engr.; M. E. Daly, Supt.	Norwood
A-B	AMERICAN MILLING MACH. CO., THE H. F. Smith, Pres.-Treas.; H. A. Heckmann, V. Pres.-Fcty. Mgr.; P. W. Yowler, Secy.-P. A.	Cor. Richmond & McLain Sts.
NN-C-GG	AMERICAN OIL PUMP & TANK CO., THE S. F. Kemper, Pres.; W. H. Gahr, Secy.; J. E. Klein, Supt.	Findlay & Dalton Sts.
A-B	AMERICAN TOOL WKS., THE L. B. Doan, Gen. Mgr.; R. M. Taylor, Wks. Mgr.; G. R. Richards, Engr.; A. E. Robinson, Supt.	Pearl & Eggleston Sts.
S-Q	AMERICAN VALVE & METER CO. J. T. McCarry, Pres.-G. M.; S. T. Macbeth, Supt.	2833 Spring Grove Ave.
B	ANDREWS, M. L. CO., THE S. B. Andrews, Pres.-Gen. Mgr.; Wm. Griesse, Supt.	Colerain & Alabama Sts.
B-KK-MM	ANTHE MACHINE WORKS T. J. Anthe, Prop.	407 Madison Ave.
II-Y	ARTISAN MFG. CO. W. L. Schellenbach, Pres.-Gen. Mgr.; D. E. Schellenbach, V. Pres.-Pur. Agt.; F. E. Seilkop, Fcty. Mgr.-Gen. Supt.	839 West 6th St.
DD	AUBLE & HIRSCHBERG MFG. CO. J. H. Auble, Prop.	2268 Spring Grove Avenue
AAA	AULT & WIBORG CO., THE C. P. Brosington, Master Mech.	436 E. New St.
DD-E	AUTO VEHICLE PARTS CO. C. J. Rebbekamp, Gen. Mgr.-Supt.-Pur. Agt.	3301 Colerain Ave.
R-E	AUTOMATIC ELECTL. DEVICES CO., THE Clarence E. Ogden, Pres.-Treas.-Ch. Engr.-Gen. Mgr.; S. P. Ellis, V. Pres.; Arthur H. Ewald, Secy.; Ray Smith, Fcty. Mgr.-Pur. Agt.	120 East Third St.
B-DD-II	AVERBECK MACHINE CO. L. Averbeck, Prop.	Covington, Ky.
A-B	AVEY DRILLING MACHINE CO., THE L. B. Patterson, Pres.-Treas.; J. G. Hey, V. Pres.-Gen. Mgr.; A. E. Patterson, Secy.; J. F. Merrieles, Gen. Supt.; J. M. Moore, Pur. Agt.	Covington, Ky.
DD	BADER-TEM MEN MACHINE CO. W. C. Bader, Pres.; F. X. Temmen, V. Pres.	Plum & Genesee St.

OHIO
SALES
OFFICE



MORSE



DRIVES



ENGINEERS
BUILDING
CLEVELAND

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
GGG-H-X	BARDES, E. H. RANGE & FDRY. CO., THE E. H. Bardes, Pres.-Treas.; O. L. Bardes, V. Pres.; E. Bardes, Secy.	2619 Colerain Ave.
	BAUM, J. SAFE & LOCK CO., THE A. L. Baum, Pres.; G. M. Bacon, Gen. Mgr.	617 E. Front St.
E	BEIDERMAN MOTOR TRUCK CO. C. B. Beiderman, Gen. Mgr.	Spring Grove & Barnard Sts.
DD-II	BENZ, ADAM & SON Adam Benz, Prop.	Bank St. & Central Avenue.
DD	BERGHAUSEN MCH. CO. Geo. Berghausen, Prop.	2128 Colerain Ave.
BB-PP	BLAESI, CLIF. W. COMPANY Cliff W. Blaes, Prop.	238 E. 3rd St.
ZZ	BLYMYER IRON WKS. CO., THE Otto Frank, Ch. Engr.	2933 Spring Grove Ave.
B-DD-II	BOCK MFG. CO., THE Jno. T. Rowell, Pres.-Gen. Mgr.; B. J. Obert, Supt.	3618 Colerain Ave.
H-X	BOLLMAN, THEO Theo. Bollman, Prop.	224 E. Front St.
H-X	BOLLMAN-WILSON FDY. CO., THE Wm. Gilbert, Pres.; E. D. Brooks, Gen. Mgr.	617 E. Front St.
VV	BOSS WASHING MACHINE CO., THE Information withheld.	Norwood
K	BOURBON COPPER & BRASS WKS. THE P. M. Bardo, Gen. Mgr.	618 E. Front St.
A-B	BOYE-EMMES MCH. TOOL CO., THE F. W. Boyes, Pres.; W. T. Emmes, Gen. Mgr.; Geo. A. Mohr, Supt.	Buck & Queen City Ave.
E-DD-T-H-X	BOYER-RADFORD JACK MFG. CO. E. H. Wuerdeman, Prop.	Dane & Spring Grove
A-B	BRADFORD MCH. TOOL CO., THE E. W. Blum, Ch. Engr.; W. T. Johnson, Supt.	811 Evans St.
DD-II	BREHMER, F. W. MCH. & TOOL CO. F. W. Brehmer, Prop.	815 Broadway St.
DD-E	BRIGHTON SPRING & FORGING WKS. S. F. Huber, Jr., Prop.	2146 Barnard St.
QQ-ZZ	BRINKMAN, F. J. MFG. CO. F. J. Brinkman, Prop.	11 W. Clifton St.
H-X	BRIQUETTING COMPANY OF ILLINOIS M. P. Jacomini, Pres.-Treas.-G. M.; L. F. Kristufek, V. Pres.; E. F. Week, Secy.	Winton Place
N	BROWN, H. L. FENCE & MFG. CO., THE W. E. Robertson, Pres.; W. L. Robertson, Secy.; W. H. Greenland, G. M.-P. A.	Oakley
BB-OO	BRUNNER MFG. CO. A. B. Jenkins, Dist Mgr.	410 1st Nat'l Bank Bldg.
F	BRUNSWICK PATTERN WKS. John Brunswick, Prop.	2225 Bogen St.
C-EE	BUCKEYE BOILER REPAIR & WELDING CO. Information withheld.	447 E. 2nd St.
DD	BUOB & KIMMERLE MACHINE CO. Fred Buob, Prop.; Al Kimmerle, Prop.	216 Post Square
L-S	BURTON ENGINEERING & MCH. CO., THE W. W. Bowers, Pres.; J. W. Braddock, V. P.; R. L. McCabe, S. T.; Frank Mitchell, G. M. J. C. Meyer, P. A.; C. E. Wentzel, Ch. Engr.-Fcty. Mgr.-Supt.	Spring Grove & Alabama Ave.
BB-I-VV	C. & D. MCHRY. EXCH., THE Edw. C. Grever, Pres.; Frank H. Grever, Treas.-P. A.	149 Sycamore St.
R-C	CARLISLE & FINCH CO., THE M. Carlisle, Gen. Mgr.-Ch. Engr.	229 E. Clifton Ave.

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
A-B	CARLTON MCH. TOOL CO., THE J. C. Carlton, Pres.-Treas.; A. F. Medicks, Supt.	Spring Grove & Meeks
II	CARROLL, A. V. MCH. TOOL CO. A. V. Carroll, Prop.	Highland Ave. Norwood
B	CENTURY MACHINE CO., THE Paul Esselborn, Pres.; H. H. Hackstedde, V. Pres.-Secy.-Treas.; G. T. Mooney, Ch. Engr P. Brockardt, Supt.; H. Eicher, Pur. Agt	Oakley
X-H	CINTI. ALUMINUM CASTING CO., THE J. Lithtenauer, Pres.-Treas.-Gen. Mgr.; J. Wolf, V. Pres.; R. Brockman, Secy.-Fcty. Mgr.-P. A.	Norwood
A-B-II	CINCI. AUTOMATIC MCH. CO., THE F. P. Glash, G. M.; A. K. Thomas, Supt.	2300 Buck St.
M-O-E-DD	CINTI. BALL CRANK CO., THE Clifford Green, Pres.; A. B. Breeze, V. Pres.-Gen. Mgr.; E. R. Douglas, Ch. Engr. C. A. Dean, Gen. Supt.; E. C. Walton, Pur. Agt.	Oakley
A-B	CINTI. BICKFORD TOOL CO., THE A. H. Teuchter, Pres.; G. P. Gradolph, V. Pres.-Treas.; H. M. Norris, Secy.; O. E. Schauer, Wks. Mgr.; D. C. Klausmeyer, Asst. Mgr.; L. Lee Schauer, Ch. Engr.; Wm. Bartels, Supt.; W. C. Schauer, Pur. Agt.	Oakley
GG	CINTI. CORRUGATED BOX CO., THE T. S. Goodman, Pres.; O. DeGray Vanderbilt, V. Pres.; S. M. Goodman, Secy. E. M. Fridman, Treas.-Pur. Agt.; V. E. Sacksteder, Gen. Mgr.-Fcty. Mgr.; L. A. Sicking, Sales Mgr.	2709 Spring Grove Ave.
II-DD	CINCINNATI CUTTING DIE CO. John Scarlet, Gen. Mgr.	436 E. 2nd St.
R-OO-AA	CINTI. ELECTL. TOOL CO., THE J. A. Goldman, Pres.-Treas.; Jos. Wolf, V. Pres.-Gen. Mgr.-Sales Mgr.; B. L. Heidingsfeld, Secy.; John Reising, Prod. Mgr.	1501 Freeman Ave.
Z	CINTI. ELEVATOR WKS. F. N. Meyer, Pres.-Ch. Engr.; H. C. Ahlers, V. Pres.-Fcty. Mgr.; J. D. Quigley, Secy.-Treas.-Gen. Mgr.	212 W. 2nd St.
B-L-DD-II	CINCINNATI ENGR. TOOL CO., THE W. H. Vockell, Pres.; H. C. Uihlein, Secy.-Treas.	4657 Spring Grove Ave.
H-X	CINCINNATI FIXTURE FDY. CO., THE Information withheld.	Front and Main Sts.
M	CINCINNATI FORGING CO. Nick Paoello, Prop.	58 Elm St.
S	CINCINNATI FROG & SWITCH CO., THE Chas. Partington, Pres.; C. H. Partington, Ch. Engr.; Arthur Endebrock, Secy.-Treas.; Geo. W. Clark, Supt.; H. Hopple, Pur. Agt.	Oakley
T	CINCINNATI GEAR CO., THE S. Sorenson, Wks. Mgr.	1841 Reading Rd.
A-B	CINCINNATI GEAR CUTTING MCH. CO. P. G. March, Pres.-Gen. Mgr.; J. S. Drewry, V. Pres.; P. G. March, Jr., Secy.-Treas.; R. T. Hazelton, Fcty. Mgr.; S. White, Ch. Engr.; H. Fenner, Pur. Agt.	Elam and Garrard Ave.
A-B-AA	CINCINNATI GRINDER CO., THE Arthur C. Hoefinghoff, Pres.-Gen. Mgr.; C. Wood Walter, V. Pres.; F. V. Geier, Secy. P. O. Geier, Treas.	Oakley
M	CINCINNATI ICE PICK & TONG MFG. CO. M. Ackerman, Prop.-G. M.	3062 Colerain Ave.
N-ZZ	CINCINNATI IRON FENCE CO., THE Clarence Le Bus, Pres.; Orie Le Bus, V. Pres.; N. B. Rigg, Pur. Agt.	3399 Spring Grove Avenue.
BB-G	CINCINNATI IRON & STEEL CO., THE H. C. Busch, Pres.; Jas. A. Sebastiani, Secy. & Treas.	Fifth & Freeman Ave.
D-E-R	CINCINNATI LAMP & BRACKET CO., THE Henry W. Meyer, Pres.; John Cowell, V. Pres.; Charlton C. Wright, Secy.; Stephen A. Wetzel, Office Mgr.-Pur. Agt.; W. A. Hey, Sales Mgr.; F. T. Evers, Gen. Supt.	3rd & Race Street
A-B	CINCINNATI LATHE & TOOL CO., THE W. C. Heindel, Pres.; J. S. Laird, V. Pres.; W. J. Anderson, Treas.-Pur. Agt.; L. G. Halloway, Supt.	Oakley

THE MOTT & MERRYWEATHER MACHINERY CO.

Cleveland
Cincinnati
Detroit
Pittsburgh

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
A-B-AA	CINTI. MILLING MCH. CO., THE Fred A. Geier, Pres.; C. Wood Walter, V. Pres.; P. O. Geier, Treas.; A. Hildenbrandt, Pur. Agt.; S. Einstein, Ch. Engr.; W. Peaslee, Gen. Supt.	Oakley
F	CINCINNATI PATTERN WORKS Information withheld.	Front and Lawrence
A-B	CINCINNATI PLANER CO., THE B. B. Quillen, Pres.; Geo. Langen, Secy.-Wks. Mgr.; G. D. Walker, Treas.-P. A.; C. Linden, Ch. Engr.; C. Hohnhorst, Supt.	Oakley
B	CINCINNATI REFRIGERATING MCHY. CO., THE B. M. Markstein, Gen. Mgr.; W. M. Steinkoenig, Gen. Supt.	663 Lincoln Ave.
U	CINCINNATI SCREW CO., THE B. B. Quillen, Pres.-Treas.; I. W. Pettengill, Secy.-Gen. Mgr.; F. B. Lovejoy, Fcty. Mgr.	Loveland
A-B	CINCINNATI SHAPER CO., THE P. G. March, Pres.-Gen. Mgr.; J. S. Drewry, V. Pres.; P. G. March, Jr., Secy.-Treas.; R. T. Hazelton, Fcty. Mgr.; S. White, Ch. Engr.; H. Fenner, Pur. Agt.	Elam St. and Garrard Avenue
D-R	CINCINNATI SPECIALTY MFG. CO., THE F. F. Oakley, Pres.-Gen. Mgr.; Louis Stentz, V. Pres.; J. Ben. Grause, Secy.; Wm. Maischheuser, Treas.; A. B. Oakley, Fcty. Mgr.; M. Fell, Service Mgr.; N. Risch, Asst. Pur. Agt.	1907 Powers St.
D-DD-II	CINTI. STAMPING CO., THE R. P. Ross, Pres.; O. E. Karst, Gen. Supt.	24 W. McMicken Ave.
H-X	CINTI. STEEL CASTINGS CO., THE F. W. Lammers, Pres.-Gen. Mgr.; L. Geiser, Supt.	1220 Queen City Ave.
DDD	CINTI. TIME RECORDER CO., THE C. H. Gamble, Pres.-G. M.; R. A. Hunt, P. A.; J. G. Stuhlfouth, Gen. Supt.	1725 Central Ave.
K-DD-II	CINTI. TOOL CO., THE J. M. Hargrave, Pres.-Gen. Mgr.	Norwood
A-B	CISCO MACHINE TOOL CO., THE H. C. Busch, Pres.; J. A. Sebastiani, Secy.-Treas.; G. M. Horton, Gen. Mgr.-P. A.; H. F. Kienker, Gen. Supt.	B. & O. Ry. & Elmore St.
BB-OO	CLIFTON-PRATT CO., THE A. E. Clifton, V. Pres.-Gen. Mgr.	1224 West 8th St.
BB-K	COLBY-MERRILL CO., THE C. N. O'Day, Dist. Mgr.	1st Nat'l Bank Bldg. (M. O. Cleveland, Ohio).
EE	COLE, GEORGE, WELDING CO. Geo. Cole, Prop.	2112 Central Ave.
ZZ	COLUMBIA IRON WKS. Information withheld.	721 Reading Rd.
Y	CONWAY CLUTCH CO., THE A. J. Conway, G. M.	1950 West 6th St.
D-E-R	CORCORAN, THOS. J. LAMP CO., THE F. J. Corcoran, Pres.; E. A. Kuen, V. Pres.; G. P. Doll, Secy.-Treas.; E. A. Corcoran, Supt.	4900 Spring Grove Ave.
D-E	CORCORAN MFG. CO., THE J. Shaffield, Supt.	Norwood
D-E-GG	CORCORAN-VICTOR CO., THE T. H. Caruthers, Secy. & Treas.; H. Rankin, Supt.	712 Reading Rd.
B	CORDESMAN RECHTIN CO., THE H. J. Cordesman, Ch. Engr.	Pearl & Butler Street
D-K	CRANE & BREED MFG. CO., THE Howard Breed, Supt.	1227 West 8th Street
DD-D	CRESCENT TOOL CO., THE Chas. Wasmer, Pres.; W. R. Steltenpohl, S.-T.-Supt.	2nd & Elm Sts.
Z-BB-S	CURRAN, JAS. ELEVATOR CO., THE Information withheld.	114 W. 2nd St.
UU	CURRY, J. W. CO. J. W. Curry, Pres.-Gen. Mgr.-Fcty. Mgr.; R. F. Curry, V. Pres.-Pur. Agt.; M. F. Curry, Secy.-Treas.	2615 Cummins St.

Who?

Est. 1906

HIGH CLASS EMPLOYMENT SERVICE

INTERSTATE BUSINESS EXCHANGE

MAIN 3629 658 ROSE BUILDING CLEVELAND

FOR

Executives, Engineers,
Draftsmen, Salesmen,
Office Men and Women

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
B	DALTON ADDING MCH. CO., THE J. L. Dalton, Pres.-G. M.; C. L. Dalton, Fcty. Mgr.; C. H. Wolfe, Ch. Engr.; R. D. Byars, P. A.; H. Landsidel, Supt.	Norwood
	DALTON TIME LOCK CO. Information withheld.	2268 Spring Grove Ave.
EE-C	DAVIS WELDING & MFG. CO. Augustine Davis, Jr., Pres.-Gen. Mgr.; John T. Earl, V. Pres.; A. L. Betts, Secy.-Treas.-Fcty. Mgr.; P. S. Schield, Ch. Engr.; E. W. Schutte, Pur. Agt.	1543 Queen City Ave.
B	DAY, J. H. CO., THE F. M. Dudley, Treas.-Pur. Agt.; T. J. Tellefsen, Wks. Mgr.; N. C. W. Chapman, Ch. Engr.; Henry Buist, Supt.	Harrison & Colerain Aves.
DD	DETERS, F. & CO. F. Deters, Prop.-Supt.	1118 Elm St.
EE	DETROIT & CINTL. WELDING CO. Information withheld.	228 East 2nd St.
DD	DEUTSCHLE & McKINLEY Jas. S. McKinley, Prop.; Jos. Deutschle, Prop.	1633 John St.
BB-I-K-PP	DEVOU V. N. SUPPLY CO., THE Information withheld.	506 Central Ave.
D-QQ	DIECKMANN, FERDINAND CO., THE Ferdinand Dieckman, Pres.-Gen. Mgr.	Harrison & Spring Grove Aves.
VV	DIETZ MFG. CO., THE G. Dietz, Gen. Mgr.	W. Findlay & Canal St.
MM	DISSTON'S HENRY SONS CO., THE C. E. Mather, G. M.	6th & Baymiller Sts.
BB-I-PP-R	DOERMANN-ROEHRER CO., THE Chas. H. Doermann, Pres.-Treas.-Gen. Mgr.; M. Roehrer, V. Pres.-Secy.	318 East 3rd St.
A-B	DRESES MCH. TOOL CO. F. Hudson, G. M.; E. J. Spalth, Supt.; J. Wiebell, Gen. Foreman.	227 West McMicken St.
K	ECONOMY BRASS MFG. CO., THE Philip P. Bundman, Pres.-Secy.-Pur. Agt.; W. E. Auten, V. Pres.; Martin P. Bruson, Treas.	207 Main St.
BB-PP	ECONOMY MACHRY. CO. John H. Flynn, Sr., G. M.	428 E. Pearl St.
H-K-X	EDNA BRASS CO. I. Joseph, Pres.; D. Joseph, V. Pres.; B. I. Kauffman, Gen. Mgr.; R. V. Buram, P. A.	528 Reading Rd.
D-E-QQ	EDWARDS MFG. CO., THE E. W. Edwards, Pres.; G. R. Edwards, V. Pres.; G. D. Myers, Secy.; H. W. Edwards, Treas.; O. S. Larkby, Asst. Secy.; W. A. Edwards, Gen. Supt.; H. W. Woodward, Pur. Agt.	5th & Eggleston Aves.
S-R	ELEC. RY. EQUIPMENT CO., THE R. Andrews, Ch. Engr.	2900 Cormacy Ave.
X-H	ELMWOOD CASTINGS CO., THE Louis B. Weber, Pres.-G. M.; Joseph G. Weber, P. A.; Wm. Seilkop, Ch. Engr.; George Deems, Fcty. Mgr.	Mun Rd.
DD-II	ERHART, CHRIST Christ Erhart, Prop.	West 6th St.
K	EUREKA BRASS WKS. CO., INC. George Angert, Pres.-Gen. Mgr.-Pur. Agt.; Emil Claussnitzer, V. Pres.; H. F. Heinzerling, Fcty. Mgr.	1040 Hulbert Ave.
BB-I-PP	FAIR MACHINERY CO. M. G. Overend, Pres. G. M.	217 Walnut St.
B	FAY, J. A. & EGAN CO., THE R. Egan, Gen. Mgr.; J. M. Reed, Supt.	Front & John Sts.
U	FISCHER SPECIAL MFG. CO. F. H. Fischer, Prop.-Gen. Mgr.; C. H. Fischer, Prop.; W. E. Clinkenbeard, Supt.	2076 Reading Rd.
BB-I-PP	FLYNN, WM. H. MCHY. CO. Wm. H. Flynn, Prop.	404 E. 2nd St.
R-XX	FORMICA INSULATION CO., THE H. A. Faber, Pres.; J. M. Thier, Supt.	4614 Spring Grove Ave.

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
A-B	FOSDICK MACHINE TOOL CO., THE W. E. Keplinger, Pres.; N. B. Chace, V. Pres.-Gen. Mgr.; F. C. Tuttle, Secy.-Treas.; F. H. Larsh, Ch. Engr.; E. H. Kountz, Gen. Supt.; W. R. Hofmann, Pur. Agt.	Blue Rock & Apple Sts.
B	FREEMAN, LOUIS G. CO., THE J. J. Arundel, Ch. Engr.; Jas. Herbes, Supt.	909 Sycamore Ave.
B-D-K-T	G. & G. MFG. CO., THE Ernst Gevelhoff, Pres.-Gen. Mgr.; Isaac Levi, V. Pres.; Davis Levi, Secy.-Treas.-P. A.; Herman Pfeiffer, Fcty. Mgr.	3116 Spring Grove Avenue.
ZZ-QQ	GENERAL IRON WKS. CO., THE A. E. Reuss, Pres.-Gen. Mgr.; T. Kluver, V. Pres.-Gen. Supt.; C. A. Schneifer, Secy.-Treas.; H. E. Barnes, Ch. Engr.	Front & Harriett Streets.
F	GENERAL PATTERN WKS. Geo. Oberland, Prop.	Buck St.
U	GENERAL SCREW CO. Jas. J. Knecht, Gen. Mgr.-Supt.	428 East 8th St.
D-II	GERDING BROS. H. Gerding, E. Gerding, Props.	3rd & Vine Sts.
D-EE-DD	GLOBE METALLIC WKS. Z. Schaw, Prop.	1126 Gest St.
III	GLOBE REGISTER CO. B. M. Boyd, Pres.-Treas.-Gen. Mgr.; H. H. Knoerman, V. Pres.-Fcty. Mgr.; W. H. Peters, Secy.	2412 Reading Rd.
D-QQ	GLOBE-WERNICKE CO. H. C. Yeiser, Pres.; E. Z. Blagg, V. P.; H. C. Yeiser, Jr., V. P.; J. E. Blaine, Jr., S.-T.; M. O. Dure, P. A.; Geo. F. Kroeger, Gen. Supt.	Norwood
B	GOLDBERG PADDING MCH. CO., THE Information withheld.	813 Main St.
DD	GRANT MACHINE CO. J. Greenbaum, Prop.	1423 Plum St.
A-B	GRAY, G. A. CO., THE August Marks, V. Pres.; E. F. Cardullo, Ch. Engr.; C. H. Hummel, Supt.	Gest & Depot Sts.
A-B-DD-II	GREAT WESTERN LATHE & TOOL CO., THE A. Aeberle, Pres.-Gen. Mgr.	132 Opera Place
A-B	GREAVES MCH. TOOL CO., THE W. A. Greaves, Jr., Pres.; W. H. Greaves, Secy.-Pur. Agt.	2116 Colerain Ave.
N	GREENO, C. L. CO., THE E. W. Greeno, Pres.-G. M.; G. A. Robinson, Gen. Supt.	Chase & C. H. & D. R. R.
QQ-GGG	GROSSIUS, JOHN FURNACE CO., THE W. J. Donahoe, Pres.-Treas.; J. W. Donahoe, Secy.-Sales Mgr.; Albert Bowen, Fcty. Mgr.	318 E. 8th St.
	HALL'S SAFE CO., THE E. C. Hall, Jr., Pres.; J. L. Hall, V. Pres.; W. A. Hopple, Jr., Secy.-Treas.; J. E. Dwyer, Supt.	3253 Spring Grove Avenue.
Z	HANNA LOCOMOTIVE STOKER CO., THE W. T. Hanna, Pres.-Treas.-Sales Mgr.; W. H. Hopple, V. Pres.-Fcty. Mgr.-P. A.; C. P. Johnson, Secy.; David M. Levy, Treas.; M. E. Kauffman, Asst. P. A.	Fcty. Wade & Linn Sts.) Office, 411 4th Nat'l Bank Bg.
K	HARKER MFG. COMPANY J. A. Scallan, Pres.; W. E. Scallan, G. M.	121 W. 3rd St.
X-H	HAVEN MALLEABLE CASTINGS CO., THE H. Schumaker, Pres.-G. M.; W. Gallimose, V. P.	
D	HEEKIN CAN CO. D. M. Heekin, Supt.	New St.
B-DD	HEILMAN, JNO. C. J. C. Heilman, Prop.-Mgr.-P. A.	Gulow & B. & O. R. R.
DD	HEMPELMAN, EDW. H. (Prop.)	120 Opera Place
DDD	HERSCHEDE-HALL CLOCK CO., THE Edw. Eberhardt, Gen. Supt.	McMillan & Essex Rd.
B	HILBERT MCH. CO., THE J. Hilbert, Prop. & P. A.	2116 Colerain Ave.

OHIO
SALES
OFFICE



MORSE DRIVES



ENGINEERS
BUILDING
CLEVELAND

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
AA-OO	HISEY-WOLF CO., THE H. Roth, Ch. Engr.; E. Ritz, Supt.	Colerain & Marshall Avenue.
A-B	HOLLINGSWORTH MACHINE TOOL CO. C. J. Hollingsworth, Prop.; Wm. J. Eggenbrecht, Prop.-Supt.	Covington, Ky.
D-DD	HOMAN MFG. CO., THE J. J. Tressel, Supt.	Findlay & Western Aves.
A-B	HOUSTON STANWOOD & GAMBLE W. W. Bishop, Pres.-Gen. Mgr.; J. C. Lease, Supt.; Wm. Frost, Ch. Engr.; E. M. Feeney, Pur. Agt.	Covington, Ky.
N	HUNT, M. A. CO., THE W. O. Lathrop, Pres.-G. M.; D. R. Lathrop, Treas.-P. A.-Supt.	B. & O. & Dempsey Street.
KK	HY-SPEED DRILL CO. Wm. G. Hoelscher, Pres.-Gen. Mgr.	51 Lawrence St.
D	ICY-HOT BOTTLE CO., THE C. E. Stebbins, Gen. Mgr.-Supt.	126 W. 2nd St.
SS	IDEAL CONCRETE MCHRY. CO., THE Julius W. Frieberg, Pres.-Treas.; N. Ranshoff, V. Pres.-Gen. Mgr.-Fcty. Mgr.; A. Van Cleef, Pur. Agt.	Colerain & Monmouth Streets.
F-H-X	IDEAL PATTERN WKS. & FDY. CO. Robt. E. Schlegel, Pres.-Secy.-Gen. Mgr.; E. Schlegel, V. Pres.; Treas.-Pur. Agt.; Walter E. Roth, Fcty. Mgr.-Ch. Engr.	Murray Rd. St. Bernard
DD-II-D	IDEAL STAMPING COMPANY Jno. Aspenleiter, Prop.-Gen. Mgr.; Peter Aspenleiter, Fcty. Mgr.	136 Opera Place
R-GGG	INCANDESCENT LIGHT & STOVE CO., THE Jos. Stubber, Pres.; H. J. Helmer, Supt.	Madisonville
B	INTERNATIONAL HARNESS MCHY. CO., THE E. Munwrich, Supt.	8th & Broadway
B-DD	IRWIN, H. R. MFG. CO. H. R. Irwin, Mgr. Prop.	Front & Pike Sts.
B-NN-OO	JAECKH, JOHN G. John G. Jaeckh, Prop.	422 E. 8th St.
R	JANTZ & LEIST ELECTRIC CO. Wm. Leist, O. W. Jantz, Props.	York & Western Ave.
DD-II	JOHNSTON, ROBT. C. & CO. Robt. C. Johnston, Prop.-Supt.; Earl Walker, Ch. Engr.	620 Lodge St.
BB-I-PP	JOHNSTON, WM. T. CO. Wm. T. Johnston, Prop.	3rd & Vine St.
BB-PP	JONES MACHINE TOOL CO. R. Jones, Mgr.	425 E. Pearl St.
E-D	K.-D. LAMP CO., THE E. W. Driemeyer, Pres.-P. A.; C. C. Clark, V. P.; H. R. Kerans, Sec.-Treas.-P. A.;	108-112 West 3rd St.
R-MM	KAETHER SAW MACHINE CO. Minnie Kaether, Pres.; Millie Kaether, V. P.; H. C. Kaether, Treas.-G. M.-P. A.	4600 Spring Grove Ave.
QQ-ZZ	KAMMEN, WALTER MFG. CO. Walter Kammen, Prop.	3258 Spring Grove Ave.
DD	KECK, C. MFG. CO. C. Keck, Prop.	77 Elm St.
B	KEENE, GEO. C. & CO. Geo. C. Keene, Prop.	235 Florence St.
E	KELLY SPRING CO., THE Harry P. Kelly, Pres.-Sec.-Treas.; M. F. Marcus, G. M.; F. Backman, Fcty. Mgr.; Jos. Fuehner, Ch. Engr.; K. Hilgeman, P. A.	Genl. Offices 2246 Spring Grove
QQ	KIECHLER MFG. CO., THE C. Kiechler, Sr., Pres.; Wm. W. Cheeseman, Secty.-G. M.	Wade & Denman Sts.
A-B	KING MACHINE TOOL CO., THE Rufus King, Pres.; E. A. Muller, V. P.-G. M.-P. A.; E. A. Muller, Ch. Engr.	Clifton & B. & O. R. R.

Main Office and Showroom: 717 LAKESIDE AVE. N.W.

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
B-R	KINGERY MANUFACTURING CO. G. F. Stewart, Gen. Mgr.; H. Hecht, Supt.	108 E. Pearl St.
BB-I-PP	KINSEY, E. A. CO., THE W. J. Ratcliffe, Pres.-Gen. Mgr.; A. E. Douglass, Asst. Mgr.	335 W. 4th St.
F	KIRCHER PATTERN CO. J. Kircher, Prop.	3089 Colerain Ave.
QQ	KIRK & BLUM MFG. CO. S. W. Kirk, Pres.; R. J. Blum, V. P.-Treas.-P. A.;	2850 Spring Grove Ave.
H-X-K	KIRKUP, ROBERT & COMPANY R. Kirkup, Prop.	616 Lodge St.
X-D-GGG	KLAINÉ, F. A. CO., THE Information withheld.	Front & Central Avenue
NN	KOENIGKRAMER, F. & F. Frank Koenigkramer, Prop.-G. M.	1914 Western Ave.
B-MM	KUEHNLE, JOHN & SONS Chas. Kuehnle, Prop.; Geo. Kuehnle, Prop.	2108 Colerain Ave.
ZZ	LANG, WM. & SONS CO. Wm. Lang, Prop.	2128 Patterson St.
H-X	LEARY & MANLEY CO. Information withheld.	Spring Grove & Alabama
A-B-AA	LeBLOND, R. K. MACHINE TOOL CO., THE R. K. LeBlond, Pres.; J. A. LeBlond, V. Pres.-Wks. Mgr.; E. J. Schultz, Treas.; H. C. Pierle, Secy.; W. F. Groene, Ch. Engr.; A. L. Myers, Supt.; F. W. Weiman, Pur. Agt.	
R-FFF	LEIBEL-FLARSHEIM CO., THE E. S. Flarsheim (Firm) Wks. Mgr.; G. H. Leibel (Firm) Pres.-Gen. Mgr.; P. Harber, Supt.	410 Home St.
D-QQ-ZZ	LITTLEFORD BROS. R. S. Littleford, Gen. Mgr.-Pur. Agt.; G. W. Perry, Supt.	Pearl & Pike Sts.
D-QQ	LOCKWOOD MFG. CO., THE H. A. Lockwood, Pres.-G. M.; F. Schultz, Gen. Supt.	650 West 3rd St.
A-B	LODGE & SHIPLEY MCH. TOOL CO., THE W. J. Carroll, Pres.; G. Hall, V. Pres.-Secy.-Treas.; F. G. Kent, Wks. Mgr.	3065 Colerain Avenue.
K-H-NN	LUNKENHEIMER CO., THE E. H. Lunken, Pres.; David C. Jones, V. P.-G. M.; Chas. A. Brown, Secy.; Lawrence Bradford, Treas.; Charles Davies, Ch. Engr.; George Seyler, Fcty. Mgr. Ernest Korte, P. A.; Fred Coursey, Asst. P. A.	Beekman & Waverly Aves.
NN-OO	McGOWAN, JOHN H. CO. C. Boun, Gen. Supt.	54 Central Ave.
BB-I-PP	McLAUGHLIN, A. A. & CO. A. A. McLaughlin, Pres.-Gen. Mgr.; J. R. Romans, Secy.-Treas.-Pur. Agt.; Douglass McLaughlin, Gen Supt.	24 West 2nd St.
OO	MACLEOD CO., THE J. Macleod, Gen. Mgr.-Pur. Agt.	2232 Bogen St.
R-B	MASTER CUTTING MCH. CO., THE M. V. Bernheim, Pres.; E. P. Bernheim, V. Pres.; W. H. Argabrite, Treas.; J. W. Schaffner, Ch. Engr.; C. L. Koehler, Supt.; Oscar Koehler, Pur. Agt.	Oakley
BB-I	MECHANICAL SUPPLIES CO., THE J. B. Miller, Pres.-Treas.-G. M.-P. A.; E. A. Ritter, V. P.-Secty.	220 E. Third St.
F	MERSFELDER PATTERN WKS. H. G. Mersfelder, Prop.	Pearl & Butler
D	METAL SPECIALTY CO., THE F. J. Flach, Pres.-Treas.-G. M.; N. L. Cordesman, Secty.-P. A.; F. W. Cedarleaf, Supt.-C. E.-P. A.	1533 W. 6th St.
DD-NN	METZGER, J. CO. John C. Metzger, Prop.	2165 Spring Grove Ave.
EE	METZGER WELDING CO., THE Geo. D. Metzger, Pres.; Geo. Koehler, V. Pres.; Geo. Koehler, Jr., Secy.-Treas.-G. M.	1652 Power St.
DD-II	MODEL & METAL WORK MFG. CO. A. N. Miller, Prop.-Supt	120 Opera Place

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
H-X	MODERN FDY. CO., THE Fred A. Geier, Pres.; C. Wood Walter V. Pres.; Walter H. Geier, Sec.-Treas.-P. A.	Marburg Ave.
D-DD-II	MODERN TOOL & MFG. CO. Edw. Gardner, Prop.	119 Opera Place
D	MONARCH CARRIAGE GOODS CO., THE H. W. Voss, G. M.-P. A.; Wm. Feihrey, Supt.	2832 Spring Grove Ave.
B-DD	MONARCH TOOL & MFG. CO., THE W. Bohrer, Pres.-G. M.-Supt	66 Murdock Bldg.
BB-G	MORRIS, E. K. & CO Information withheld.	317 W. 2nd St.
A-H-X	MORRIS, JOHN B. FDY. CO., THE Geo. McG. Morris, Pres.-Treas.; S. M. Blackburn, V. P.-G. M.; A. M. Rittenhouse, Sec.-P. A.; Wilson J. Burringer, Fcty. Mgr.	Richmond & Vogt Streets.
A-B	MORRIS MACH. TOOL CO., THE George McG. Morris, Pres.-Treas.; S. M. Blackburn, V. P.; Arthur C. Pletz, Secty.-G. M.; J. Henry Heitbrink, P. A.; Edw. G. Meckstroth, P. A.;	Court & Harriet Sts.
	MOSLER LOCK CO. E. M. Benham, Supt.	Covington, Ky.
BB-I-PP	MOTCH & MERRYWEATHER MACHINERY CO., THE E. A. Shriver, Dist. Mgr.	1st Nat'l Bank Bldg.
DD	MOTOR PARTS MACHINE CO R. E. Wood, Prop.	222 E. 9th St.
DD-II	MUEHLMATT, ADOLPH Adolph Muehlmann, Prop.	5th & Elm Sts.
A-B	MUELLER MACHINE TOOL CO., THE O. W. Mueller, Pres.-G. M.; Clifford Luers, S.-T.-P. A.; A. R. Marsh, Gen. Supt.	2425 Colerain Ave.
N	MURRAY, WM. A. SPRING CO., THE Wm. A. Murray, Sr., Pres.; W. A. Murray, V. P.-Supt.; H. E. Murray, S.-T.; Edw. Francis, Prod. Mgr.	123 Sycamore St.
D-K	NAT'L BRASS MFG. CO. S. Lawson, Jr., Treas.-Supt.-P. A.	1115 Marshall Ave.
Z	NATIONAL ELEVATOR MFG. CO., THE Charles A. Burch, Pres.-G. M.	324 Longworth St.
KK-II	NATIONAL MACH. TOOL CO. H. A. Holz, Prop.	2272 Spring Grove St.
B	NATIONAL MARKING MACH. CO., THE E. B. Stanley, Pres.; R. H. Tyner, V. P.-G. M.; L. S. Smith, Jr., Sec.-Treas.; J. B. Hollister, Adv. Mgr.; W. A. Vetter, P. A.; W. Swagerl, Fcty. Mgr.	1052 Gilbert Avenue
B-DD	NEGELIN, C. MACHINE SHOP H. H. Eppler, Gen. Supt.	2001 Central Ave.
R-AA-OO	NEIL & SMITH ELEC.CO., THE K. W. Neil, Gen. Mgr.; C. Denton, Supt.	813 Broadway St.
D	NEWMAN MFG. CO. S. J. Newman, Pres.-G. M.; H. R. Bothwell, Supt.	717 Sycamore St.
B	NIEBLING, F. W. & CO. F. W. Niebling, Pres.; Edw. Niebling, V. P.-Fcty. Mgr.-Ch. Engr.; G. Everett, S.-T.-P. A.; H. Horner, Gen. Supt.	406 Elm St.
B-MM	NIVISON-WIESKOF CO., THE E. H. Miller, Pres.-G. M.; I. Humphrey, Supt.	Elm St.
U	NOLTE SCREW MCH. PRO. CO., THE E. G. Nolte, Pres.-G. M.; J. L. Moorhead, V. P.-Secy.-P. A.	1636 Freeman Ave.
H-X	NORTH SIDE FOUNDRY C. D. Strong, Jno. C. Rees, Props.	537 Collins Ave.
BB-I-PP	NORTON BROADWAY MCHY. CO. Information withheld.	238 Broadway
A-B-AA	OESTERLEIN MCH. CO., THE C. D. Oesterlein, V. Pres.-Gen. Mgr.; Chas. Freudenthaler, Supt.	3301 Colerain Ave.
MM	OHIO KNIFE CO., THE H. W. Randolph, Pres.; C. H. Waldo, V. Pres.; W. F. Ebbing, Secy.; W. L. Boehm, Supt.	Dremain & B. & O. R. R.

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
F-H-X	OHIO PATTERN WORKS & FDY. CO., THE Jos. Hausfeld, Pres.; H. A. Nash, Supt.	2730 Spring Grove Ave.
B	OLDROYD MINING MCH. CO., THE C. F. Oldroyd, Gen. Mgr.	625 W. Front St.
B	PARKS BALL BEARING MCH. CO., THE E. E. Baker, Pres.-G. M.; P. Kornan, Gen. Supt.	Knowlton & B. & O. R. R.
H-X	PEERLESS FDY. CO., THE George F. Dana, Pres.-G. M.; Gordon S. Rentschler, V. P.; Wm. J. Fey, S.-T.-P. A.; E. R. Rogers, Fcty. Mgr.	Carthage Pike
DD-II	PETERS-BOSSERT CO., THE E. Bossert, Gen. Mgr.-Supt.	617 Pearl St.
D	PFAU MFG. CO., THE Robert Pfau, Gen. Mgr.-Supt.	Norwood
G-LL	POLLAK STEEL CO., THE Emil Pollak, Pres.; M. E. Pollak, V. Pres.; J. A. Pollak, V. Pres.; B. E. Pollak, V. Pres.; E. J. Schriever, Secy.; Charles Judah, Treas.; A. C. Weihl, Gen. Wks. Mgr.; E. J. Paque, C. E.; S. D. Hopkins, Prod. Engr.; R. A. Mitchell, Supt.; Geo. Thompson, Master Mech.; G. J. Myers, Pur. Agt.; D. E. Sawyer, Gen. Sales Mgr.; S. K. Morrow, Mgr. of Sales;	W. End 71st St.
R-BB-R-GG-FFF	POST-GLOVER ELEC. CO., THE F. D. Van Winkle, Pres.; G. N. Devou, V. Pres.; E. L. Van Winkle, Secy.; M. T. Salling, Treas.-Pur. Agt.; H. M. Walmsley, Ch. Engr.-Fcty. Mgr.; John Burnett, Fcty. Foreman.	308 W. 4th St.
H-NN	POWELL, WM. CO., THE Chas. E. McFarland, Pres.-G. M.; H. H. Coombe, V. P.-Treas.; Geo. E. Weitkamp, Sec.-P. A.	2525 Spring Grove Ave.
BB-A-KK	PRATT-WHITNEY CO. W. P. Kirk, Sales Mgr.	338 W. 4th St.
R-YY-FFF	PRECISION EQUIPMENT CO., THE John L. Gates, Pres.-Treas.; Harry F. Breckel, V. Pres.-Gen. Mgr.-Ch. Engr.; Walter Helmholtz, Secy.	2437 Gilbert Ave.
VV	PRINCESS WASHING MACHINE MFG. CO., THE C. W. Crawford, Pres.-Treas.; Rev. W. L. Spiegel, Secy.; W. J. Fitterer, Fcty. Mgr.	433 E. Pearl St.
B	PRINTING MCHY. CO., THE E. E. Thiele, Supt.	412 E. 6th St.
B-DD-II	PRODUCTION MCH. TOOL CO., THE E. R. Grossman, Pres.; A. H. Ellison, V. Pres.-Supt.; T. L. Gibson, Secy.-Treas.	629 E. Pearl St.
II-DD	PROGRESSIVE MFG. CO. H. Brösch, Prop.-G. M.-Supt.	120 E. 6th St.
N	QUEEN CITY BRUSH CO. Thomas G. Melish, Pres.-G. M.-Sales; John Gates, Jr., V. P.; David Schopper, Sec.-Gen. Supt. Chas. Lenz, Treas.-P. A.; Jos. Wagner, Fcty. Mgr.; Louis Schaefer, Ch. Engr.; Thomas Miller, Asst. P. A.; Chas. W. Stevenson, Prod. Mgr.	3208 Colerain Ave.
M	QUEEN CITY FORGING CO., THE T. P. Walker, Pres. Gen. Mgr. Pur. Agt.; Walter Dinkelman, Secy.-Treas.; O. B. Walker, Fcty. Mgr.	P. O. Station "C"
A-B	QUEEN CITY MCH. TOOL CO. Albert M. Watcher, Prop.; A. Muggeridge, Supt.	1405 Sycamore St.
A-B	RAHN LARMON CO., THE A. J. Larmion, Pres.-Treas.; J. E. Bruce, V. Pres.-Secy.; F. T. Nebel, Prod. Mgr.	2941 Spring Grove Ave.
MM	RALYA SAW CO., THE W. S. Ralya, Prop.	6th & Baymiller Sts.
B	RANDALL, J. D. & CO., THE J. D. Van Ausdel, Supt.	610 W. Court St.
BB-C-NN-PP	RANDLE MCHY. CO., THE W. E. Randle, Pres.; E. C. Randle, V. Pres.-Supt.; W. E. Randle, Jr., Secy.-Treas.	Power St. & B. & O. R. R.
BB-I-PP	RECHTIN, LOUIS E. & BRO. Louis E. Rechtin, Prop.	Pearl & Butler
Z	REEDY, H. J. CO., THE Chas. Reedy, Pres.-Secy.; Geo. Munzenmair, Gen. Mgr.-Fcty. Mgr.	11 W. Second St.

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
F	RELIABLE PATTERN WKS. L. Wiegand, Prop.	2270 Spring Grove Ave.
	RICHTER BRASS CO., THE Louis A. Richter, Pres.-Gen. Mgr.-Pur. Agt.; John H. Richter, V. Pres.-Fcty. Mgr.; Chas. H. Richter, Secy.-Treas.-Master Mech.	214 E. 9th St.
OO	RIVET CUTTING GUN CO. L. K. DeBus, Gen. Mgr.	116 E. 3rd St.
B-WW	ROBINSON, J. J. MFG. CO., THE F. Johaningmann, Pres.; A. McNeill, V. Pres.; C. N. Frey, Secy.-Treas.; E. Daly, Ch. Engr.-J. Whitton, Supt.	3282 Spring Grove Ave.
E-DD-II	ROSS, F. M. MFG. CO. F. M. Ross, Prop.	Oakley
B-DD-II	RUTHMAN MACHINERY CO., THE E. J. Ruthman, Pres.; Al. Ruthman, V. Pres.; J. R. Ruthman, Secy.-Treas.	Front & Pike St.
B-DD	S. & W. MACHINE CO. R. Steltenpohl, Prop.; F. Wermes, Prop.	336 Berning Place
DD-II	SAUER BROS. F. Sauer, Prop.; A. Sauer, Prop.	1335 Bates Ave.
E	SAYERS-SCOVILL CO., THE W. A. Sayers, Pres.-G. M.; F. F. Scoville, V. P.-Treas.-P. A.; H. K. Reinoehl, Ch. Engr.	Gest & Enans Sts.
E	SCHACHT, G. A. MOTOR TRUCK CO., THE G. A. Schacht, Pres.-Gen. Mgr.-Fcty. Mgr.; C. P. Talbott, V. Pres.; Wm. Schacht, Secy.-Treas.; Richard Cossner, Prod. Mgr.; Geo. Keepler, Gen. Supt. Albert Staab, Sales Mgr.; C. C. Evans, Pur. Agt.	8th & Evans St.
II-KK	SCHELLENBACH-HUNT TOOL CO., THE G. P. Hunt, Pres.; C. O. Schellenbach, V. Pres.	120 Opera Place
ZZ	SCHREIBER, L. & SONS CO., THE Information withheld.	Norwood
II	SCOTT-SPENCER AUTOMATIC TOOL CO., THE T. J. Scott, Prop. Mgr.- B. Griffin, Supt.	2682 Madison Rd.
A-B	SEBASTIAN MACHINE TOOL CO. E. E. Stokes, Gen. Mgr.; Wm. Schroeder, Supt.	Covington, Ky.
BB-I-PP	SEIFREAT-WOODRUFF CO., THE Christ Seifreat, Pres.; E. C. Elsted, V. Pres.-Treas.	Gerke Bldg.
F	SHAFER, O. J. PATTERN WORKS O. J. Schafer, Pres.; Oscar L. Shafer, Gen. Mgr.	207 E. 6th St.
K	SHRIVER, O. P. CO., THE O. P. Schriver, Pres.; E. F. Happensack, Secy.-Treas.-Pur. Agt.; Walter H. Webster, Gen. Supt.-Master Mech.	621 E. Pearl St.
DD-II	SIMMONS, W. H. & CO. Fred Phillips, Gen. Mgr.-Supt.	210 Lawrence St.
DD	SMITH & JOHNSON MFG. CO. Jno. A. Smith, Pres.; W. H. Forsinger, V. Pres.; Allen G. Tow, Treas.	2023 Elm St.
A-B	SMITH & MILLS CO., THE J. E. Mills, Pres.-Gen. Mgr.; E. Mills, V. Pres.; C. G. Brockman, Secy.-Treas.; Wm. Strewing, Supt.	2889 Spring Grove Ave.
D-N-K	SPECIALTY DEVICE CO., THE S. M. Newburgh, Pres.; S. J. Mack, V. Pres.-Sales Mgr.-Gen. Mgr.; F. N. Bierce, Secy.-Fcty. Mgr.; R. Pappenheimer, Treas.-Pur. Agt.	106 W. 3rd St.
C-QQ-ZZ	STACEY BROS. GAS & CONST. CO., THE J. E. Stacey, Pres.; A. J. Stacey, V. Pres.; A. L. Pope, Secy.-Treas.; Wm. A. Miller, Ch. Engr.; R. B. Luebbe, Ch. Draftsman; J. J. Taylor, Supt.; E. T. Davies, Pur. Agt.	Station "P"
C-QQ-ZZ	STACEY MFG. CO., THE J. F. Stacey, Pres.-Gen. Mgr.; T. C. Ranshan, V. Pres.; W. F. Dunker, Secy.-Treas.; F. Pandorf, Ch. Engr.; E. J. Baechle, Supt.; E. H. Cordes, Pur. Agt.	Elmwood Place
R-OO-AA	STANDARD ELECTL. TOOL CO., THE F. S. Baldwin, Sec.-Treas.-P. A.; W. F. Logeman, Supt.	1820 Western Ave.

CINCINNATI, HAMILTON COUNTY, OHIO

Class	Firm and Personnel	Address
F	STANDARD PATTERN WKS. Thos. A. Hoster, Prop.	Spring Grove & Queen City Aves.
Y	STANDARD PULLEY CO., THE J. F. Jewett, Gen. Mgr.-Pur. Agt.; N. W. Barchle, Supt.	1734 Powers Street.
M	STEEL FORGING CO., THE C. R. French, S. T.-P. A.; M. H. Mitchell, G. M.; H. C. Dittler, Supt.	Oakley
A-B	STEPTOE, JOHN CO., THE O. H. Broxterman, Pres.-Gen. Mgr.	2951 Colerain Ave.
S	STEBING TRUCK CO., THE W. C. Steubing, Gen. Mgr.; W. R. Steubing, Wks. Mgr.	312 E. Court St.
BB-G-JJ	TALBOTT, C. R. CO., THE C. R. Talbott, Pres.; F. J. Sacket, V. Pres.; L. E. Denman, Secy.-Treas.-Pur. Agt.	2225 Bogen Street.
DD	TATUM, SAMUEL C. CO., THE C. C. Carpenter, Pres.-G. M.; Edw. Buengen, Gen. Supt.	2057 Reading Rd.
B	TAYLOR, CHARLES A. MFG. CO. Charles A. Taylor, Prop.	408 Home St.
FF-R	THOMPSON SPOT WELDING MCH. CO., THE L. G. Palmer, Wks. Mgr.; F. J. Clermont, Supt.; Wm. Connors, Pur. Agt.	Knowlton & Fergus Street.
T	TOOL STEEL GEAR & PINION CO., THE L. N. Gatch, Pres.; C. E. Sawtelle, V. Pres.-Gen. Mgr.; Leroy Brooks, Jr., Secy.-Treas.; G. S. Chambliss, Fcty. Mgr.-Gen. Supt.; H. R. Fleischer, Pur. Agt.	Elmwood Place
B-S	TOWSLEY, JOHN T. MFG. CO. Wm. F. Pfau, Gen. Mgr.; G. Hastell, Gen. Supt.-Pur. Agt.	1037 Evans St.
V	TRAILMOBILE CO., THE C. W. Shipley, Pres.; H. M. Wood, Secy.; J. C. A. Walter, Treas.; R. E. Rowalt, Pur. Agt.	34th St. & Robertson Ave.
B-R	TRIUMPH ELECTRIC CO., THE J. C. Hobart, Pres.; G. P. Hunt, V. Pres.; Justin Lebouce, Elec. Engr.; D. Williams, Refrig.-Engr.; J. L. McClure, Supt.	Oakley
B	TRIUMPH MFG. CO., THE H. F. Dornett, Pres.; R. W. Bragg, V. Pres.; Edw. W. Hecker, Secy.-Treas.-P. A.; P. S. Ward, Ch. Engr.	3400 Spring Grove Ave.
K	TROJAN BRASS MFG. CO. A. G. Schreck, V. Pres.-Gen. Mgr.	Main & Pearl St.
D	UNITED STATES CAN CO., THE O. C. Huffman, Pres.; M. S. Huffman, V. Pres.; F. F. Downs, Secy.-Treas.; H. N. Mallon, Fcty. Mgr.; W. A. McIntyre, Sales Mgr.; F. W. Becket, Prod. Mgr.; J. G. Mau, Master Mech.; A. Burdorf, Pur. Agt.	Norwood
B-DD-II	UNITED STATES DRILL HEAD CO. Wm. C. Moening, Gen. Mgr.	1950 West Sixth St.
OO-AA	U. S. ELECTRICAL TOOL CO., THE J. A. Smith, Pres.; J. Feltus, V. P.-Treas.-P. A.	6th & Mt. Hope Rd.
A-B	UNITED STATES MCH. TOOL CO. H. F. Smith, Pres.; H. A. Heckmann, V. Pres.; P. W. Yowler, Secy.	Richmond & McLean Aves.
	U. S. PLAYING CARDS CO., THE John Omwake, Pres.; J. D. McCracken, Fcty. Mgr.; H. Keller, Ch. Engr.; M. Morarity, P. A.; B. J. Welage, Supt.; W. F. Wood, M. M.	Norwood
F	UNIVERSAL PATTERN WKS. G. H. Liefbichter, Prop.	909 State Ave.
K-H	VARWIG MFG. CO. C. Miller, Gen. Mgr.-Supt.	120 Opera Place
DD-II-WW	VERDIN, KAPPES & VERDIN CO., THE W. H. Kappes, G. M.-P. A.	110 W. 2nd St.
H-X	WARMAN BRASS ALUMINUM CO., THE A. Hockstrasser, Pres.; H. Hockstrasser, V. Pres.	1216 Gest St.
Z	WARNER ELEVATOR MFG. CO., THE E. N. Atkins, Gen. Mgr.; A. L. Atkins, Supt.	2613 Spring Grove Ave.
R	WATKINS MOTOR CO., THE F. O. Watkins, Prop.	6th & Baymiller Sts.

CINCINNATI, HAMILTON COUNNY, OHIO

Class	Firm and Personnel	Address
S	WEIR FROG CO. THE O. De G. Vanderbilt, Jr., Pres.-Gen. Mgr.; J. K. Landsdowne, V. Pres.-Sales Mgr.; T. S. Goodman, Secy.; N. G. Miller, Treas.; M. G. Madison, Fcty. Mgr.-Gen Supt.; H. N. West, Ch. Engr.; J. G. Kreiss, Pur. Agt.	Norwood
BB-FF	WELDERS SUPPLY CO. C. A. Miller Gen Mgr.	120 Opera Pl.
R	WESCHE, B. A. ELECTRIC CO. B. A. Wesche, Pres.-Gen. Mgr.; W. Emmert, Supt.	Vine & Liberty St.
H-X	WESSLING BROS FDY. CO., THE A. G. Wessling, Pres.-Gen. Mgr.	McLean & Liberty Ave.
B-DD	WESTERN AUTO. MACH. CO., THE H. Oettinger, Pres.; F. K. Anthony, Treas.-Gen. Mgr.	34 E. Court St.
D-DD-II	WHITE-QUEHL MFG. CO. H. F. White, Gen. Mgr.	431 E. Pearl St.
BB-R-PP	WILEY-WRAY ELEC. CO. F. W. Wiley, Prop.-Gen. Mgr.; F. L. Wray, Prop.-Fcty. Mgr.-Gen. Supt.; C. L. Tangeman, Ch. Engr.; C. F. Cook, Pur. Agt.	118 W. 3rd St.
K	WILLIAMS, D. F. VALVE CO., THE R. E. Mullane, Pres.-Gen. Mgr.; F. X. Pund, V. Pres.; A. G. Muhlhauser, Secy.; H. J. Ernst Treas.; E. Voss, Fcty.-Mgr.-Ch. Engr.; A. Luebbing, Pur. Agt.	Grove Ave. & Township Sts.
BB-Y-Z-I	WIRTHLIN-MANN CO., THE E. N. Wirthlin, Pres.; G. A. Mann, V. Pres.-Sales Mgr.; W. T. Bahlman, Secy.; L. A. Wirthlin, Treas.; L. H. Sprague, Ch. Engr.; J. Wirthlin, Gen. Supt.	Plum & Commerce Sts.
B-R-OO	WOLF ELECTRIC PROMOTING CO., THE Jacob Bloch, Pres.; Herbert Bloch, V. Pres.; Felix Elsbach, Secy.-Treas.; Henry A Meyer Fcty. Mgr.	Office 810 Main St.—Fcty. 5th & Sycamore Sts.
BB-G	WOLFF, L. A. METAL WKS. L. A. Wolff, Prop	1257 Harrison Ave.
BB-PP	WOODWARD MCH. CO. M. F. Woodward Prop	1638 Homer St.
NN-OO	WORTHINGTON PUMP & MCHY CORP., LAIDLAW WORKS. N. C. Lamont Fcty Mgr.; M. Riesner Ch. Engr.; L. B. Easton Prod Mgr.; W. J. Thompson, Gen. Supt.; C. F. Dunn Pur Agt.; H. H. Miller Sales Mgr.	Elmwood Place
D-II	WRIGHT GREG G. & SON Partnership. Names withheld.	
F-DD-D	WRIGHT, J. T. CO., THE Joseph T. Wright, Pres.-Treas. Gen. Mgr.-Pur Agt; Chas. C. Carpenter V. Pres.; Stephen W. Jones, Secy.; Fred W. Emerson, Fcty. Mgr.-Gen Supt.; Davis L. James, Ch. Engr.; R. F. Warren, Asst. Pur Agt.; G. M. Agnew Sales Mgr.	2101 Reading Rd.
DD-II	ZANGE, MAX MACHINE CO. Max Zange, Prop.	11 W 13th St
S	ZERING, H. MFG. CO., THE M. E. Beinhart, Pres.; Roger W. Taylor, V. Pres.; Walter M. Beinhart, Secy.-Treas. G. M.; E. G. Beinhart, Fcty. Mgr.	Oakley

CLEVELAND CUYAHOGA COUNTY, OHIO

D	A-1 METALLIC PRODUCTS CO Information withheld	711 Canal Rd.
A-R	ACME ELECTRIC & MFG. CO., THE G. R. Hillstrom, Pres. Gen. Mgr.; R. A. Lais V.-Pres.-Supt.; C. H. Bunch, Secy.-Pur. Agt	1444 Hamilton Ave.
N-ZZ	ACME FENCE & IRON CO., THE Wm. F. Hammer, Pres., G. M. P. A.; Wm. A. Dreher, V.-P.; A. J. Shuer, S.-T Sales; J. Karow, Gen. Supt.	8506 Lake Ave.
A-B	ACME MACHINERY CO., THE F. W. Bruch, Pres.; D. R. Davies, Secy.-G. M.-P. A.; George Russell, Ch. Engr.; F. J. Schroeder, Supt.	4533 St. Clair Ave.
BB-N	ACME NAIL & SUPPLY CO. C. J. Robinson, Pres. Sales.	422 Frankfort Ave.

BOILER TUBES

FROM WAREHOUSE STOCK

STRAIGHT TUBES—For all types of fire tube and horizontal water tube boilers

BENT TUBES—For all types of vertical water tube boilers

Seamless Steel, Charcoal Iron or Lap Welded Steel

Pipe and Pipe Bending

The American Tube & Pipe Bending Co.

880 EAST 72nd ST.

Bell Phone Randolph 1652 and 1653

CLEVELAND, OHIO

M. T. DAVIDSON CO.
KITTS STEAM SPEC. CO.,

TELEPHONE CHERRY 1049

DONNELLY SYSTEMS CO.
PITTS & KITTS MFG. &
SUPPLY CO.

H. BOYD & COMPANY

MANUFACTURERS AGENTS

Steam and Centrifugal Pumps

Steam Specialties, Valves and Fittings

H. BOYD

609 WADE BLDG., CLEVELAND, OHIO.



C. W. MAXWELL, Manager
Room 216—616 St. Clair Ave., E.
Cherry 1863
CLEVELAND, OHIO

CUSTOMERS who have used "Onion Skin Finish" Carbon Papers and "Eagle" Brand Typewriter Ribbons for years, say they are THE BEST

There is a special sheet of Carbon Paper for every use. Get the kind that is best suited to the work you wish to do and you will get the best results. LET US SHOW YOU.

AMERICAN RIBBON & CARBON CO.

Alliance, Ohio, has a population of 21,603, an increase of 43% in the last ten years.

Alliance invites business and industries and co-operates with them.
We solicit investigation.

ALLIANCE CHAMBER OF COMMERCE

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
H-X	ACME-PALMER & DeMOOY FDY. CO., THE W. B. Greene, Pres.; W. H. Schwartz, V.-Pres.; Wm. Greenbaum, Sec.-Treas.; P. Klein, Gen. Supt., R. Eichenberger, Pur. Agt.	5217 Sweeney Ave.
BB-JJ-G	ACME STEEL GOODS CO. John G. Bucuss, Dist. Sales Mgr.	1886 E. 97th St. (Wks., Chicago, Ill.).
DD-II	ACTIVE MACHINE & TOOL CO., THE W. A. Warrender, G. M.-Supt.-P. A.	1220 W. 6th St.
R	ADAMS-BAGNALL ELEC. CO. (See National Screw & Tack Co.—A. B. Products Div.)	
R	ADAPTI COMPANY, THE W. B. Greene, Pres.; J. C. Boyton, G. M. P. A.-Supt.	2969 E. 72nd St.
H-X	ADVANCE BRONZE & ALUMINUM FOUNDRY Jos. J. Kofron, G. M.-Supt., P. A.	9902 Meech Ave.
P-DD	ADVANCE ENGINEERING CO., THE W. H. Tresch, S. T. P. A., Gus Mueller, G. M.-Supt.	6539 Metta Ave.
DD-II-B	ADVANCE MFG. & TOOL CO., THE J. Wilson, Gen. Mgr.; Wm. Friend, Pur. Agt.	3741 E. 93rd St.
F	ADVANCE PATTERN CO., THE J. A. Davis, Pres.Gen. Mgr.; A. D. Davis, V.-P.-Facty. Mgr., P. A.	4140 Euclid Ave.
D-E	AERO PRODUCTS CO., THE A. L. Hammink, Pres.-G. M.; W. R. Green, V.-P.-Treas.; Jay H. Hall, Secty.-P. A.	1444 E. 49th St.
K-H-E	AETNA BRASS MFG. CO. Charles Miles, Pres.-P. A.; Harry Allchin, Secty.-Gen. Supt.	1365 E. 55th St.
YY	AETNA RUBBER COMPANY, THE E. T. Slinkard, Secty.-G. M.-P. A.; Samuel Campbell, Gen. Mgr.	915 E. 79th St.
BB-AAA	AIR REDUCTION SALES CO. L. A. Sholes, Dist. Mgr.	W. 69th & N. Y. C.
A-M-B	AJAX MANUFACTURING CO., THE J. R. Blakeslee, Pres.; Harris Creech, V.-P.-Treas.; C. K. Dissette, Secty.-P. A.; H. D. Heman, G. M.; F. Otto Brinker, Ch. Engr.; R. A. Bannerman, Gen. Supt.	3830 Lakeside Ave.
BB-R	ALLEN-BRADLEY CO., THE H. A. Stevenson, Dist. Mgr.	Bangor Bldg. (Wks. Milwaukee, Wis.).
T-DD-II	ALLEN MACHINE CO., THE John Allen, Pres., G. M. P. A.	1585 Columbus Rd.
BB-B-R	ALLIS-CHALMERS MFG. CO. L. W. Grothaus, Mgr.	1121 Schofield Bldg.
DD	ALLGAIER MACHINE CO., Matthews Allgaier, Prop.	2316 St. Clair Ave.
H-X	ALLYNE-RYAN FOUNDRY CO., THE D. J. Ryan, Pres.-G. M.; M. J. Sweeney, V. P.-Treas.-P. A.; W. D. Turner, Secty.; J. F. Sords, Facty. Mgr.-Pro. Mgr.; F. D. Ryan, Gen. Supt; R. G. Sweeney, Asst. P. A.; D. Cusic, Ch. Engr.-M. M.	Aetna Rd. & E. 91st St.
E-V	ALLYNE-ZEDER MOTORS CO. Clement Studebaker, Jr. Ch. Board; Rollin H. White, Pres.; R. T. Hodgkins, V. Pres.; Col. Geo. M. Studebaker, V. Pres.; A. Knobloch, V. Pres. Wks. Mgr.; F. M. Zeder, V. Pres. Ch. Engr.; C. D. Fleming, Treas.; E. B. Wilson, Gen. Sales Mgr.; O. R. Skelton, Asst. Ch. Engr.; Carl Breer, Asst. Ch. Engr.	Euclid & Lamb Aves.
B-DD-EE-FF-CCC	ALUMINUM FIX CO., THE J. A. Smith, Pres.; C. A. Mutton, Secy.-Treas, Gen. Mgr., Supt.	1964 E. 55th St.
G	ALUMINUM MFGRS., Inc. W. P. King, Pres.-Treas.; Geo. P. Stanley, V. P.; G. M. Rollinson, G. M.; J. Collins, Supt.; R. Luther, P. A.	2210 Harvard Ave.
BB-Z	ALVEY MFG. COMPANY L. C. Marble, Dist. Mgr.	Bangor Bldg. (Wks. St. Louis, Mo.)
E-DD	AMERICAN AUTOMOTIVE PARTS COPR., THE Frank Bessinger, V. P., Supt., P. A.	707 Canal Rd.
BB-Q-QOO	AMERICAN BLOWER COMPANY Thos. Chester, Dist Mgr.; H. E. Barth, Sales Mgr.; E. L. Anderson, Sales Eng.	Swetland Bldg. (Wks., Detroit, Mich.)

THE BUCKEYE WELDING & SUPPLY CO.

Electric Oxy-Acetylene-Carbo-Hydrogen
Crescent Welding Rods

WELDING



CUTTING

EQUIPMENT AND SUPPLIES

SOLDER

BABBITT

1544-52 W. SIXTH ST.

CLEVELAND, OHIO

Speed-o-feeder

TRADE MARK - REG. U.S. PAT. OFF.
"Saves Addressing Time"

THE SPEED-O-FEEDER operates on any standard make of typewriter. With the Speed-o-feeder, envelopes can be addressed at more than twice the usual speed.

Typists who find addressing 1000 to 1500 envelopes a hard day's work, are addressing 2500 to 3500 a day with the Speed-o-feeder with much less effort.

Consider what this extra production means in actual savings to you.

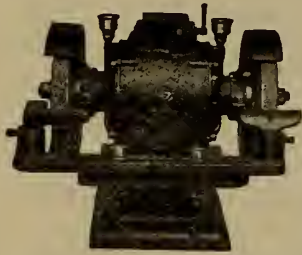
THE AMERICAN SPEED-O-FEEDER CO.
CLEVELAND, OHIO



CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
K	AMER. BRASS MFG. CO., THE Jos. R. Arth, Pres.; B. R. Arth, G. M., Supt.	1521 E. 49th St.
D	AMER. CAN COMPANY, THE (Information withheld)	1677 E. 40th St.
BB-A-C-Z	AMER. ENGINEERING CO., THE E. V. Strickler, Dist. Mgr.	1900 Euclid Bldg
BB-N	AMERICAN FENCE CONSTR. CO.	M. O. New York City (See Morris & Reynolds.)
D-RR	AMERICAN FORK & HOE CO., THE W. H. Cowdrey, Pres.-G. M.; S. S. Chapin, Secy.-P. A.; Geo. B. Durell, Treas.; C. B. Rowley, Ch. Engr.	Swetland Bldg.—Plants Geneva, O. and Ashtabula, Ohio.)
BB-CC-SS	AMERICAN HOIST & DERRICK CO., THE	St. Paul, Minn. (See Morris & Reynolds)
JJJ	AMERICAN MULTIGRAPH SALES CO., THE H. C. Osborn, Pres.-Gen. Mgr.; R. G. A. Phillips, 1st V. Pres.; S. H. Mansfield, Secy.-P. A.; E. F. Koenig, Treas.; W. R. Allen, Ch. Engr.; R. G. Pack, Fcty & Prod. Mgr.; W. C. Dunlap, Sales Mgr.; F. J. Lyke, Supt.	E. 40th & Kelly Ave.
G-JJ	AMERICAN SHEET & TIN PLATE CO. C. M. Ballou, Gen. Mgr.; M. H. Dennis, Pur. Agt. (Pittsburgh, Pa.)	7037 Bessemer Ave.
BB-G-JJ	AMERICAN SHEET & TIN PLATE CO., H. E. Duff, Sales-Rep.	Engrs. Bldg.
	AMERICAN SHIP BUILDING CO. A. G. Smith, Pres.-Opr. Mgr.; W. H. Herhauser, P. A.; S. Patmore, Gen. Supt.	Foot of W. 54th St.
JJJ	AMER. SPEED-O-FEEDER CO., THE W. C. Clark, Pres.-Treas.; F. H. Gargett, V. P.; J. L. Vaughn, Secy.-P. A.; Harry L. Wood, Ch. Engr.-Prod.; Earl J. Baker, Gen. Supt.; Vernon W. Jared, Sales Mgr.	118 St. Clair, N. E. (Card Bldg.)
G-N	AMERICAN STEEL & WIRE CO. J. N. Fleming, Dist. Pur. Agt.	Western Reserve Bldg.
	American Wks.	1230 Marquette Ave.
	Central Furnace & Docks	Broadway & River
	Coke Works	Harvard Ave. & Newburgh & S. S. R. R.
	Cuyahoga Works	E. 42nd & Harvard Ave.
	Consolidated Works	East 67th St.
	H. P. Works	1192 E. 40th St.
	Newburgh Steel Works—Newburgh Wire Works	8101 Broadway Ave.
	Newburgh & South Shore R. R.	
DD-II	AMER. TOOL & GAUGE CO. J. J. Mahon, G. M.-P. A.; W. R. West, Supt.	1924 E. 55th St.
M	AMER. TUBE & PIPE BENDING CO., THE Samuel Firestone, Pres.; Henry Friedman, 1st V. Pres.; Hon. Jas. Woodward, 2nd V. P.; I. J. Freedman, Secy.-Supt.-Pur. Agt.; Ben Karp, Treas.; Daniel Kelleher, Ch. Engr.; H. S. White, Sales Mgr.; J. S. Freedman, Sales Engr.	880 E. 72nd St.
II-KK	AMERICAN TURRET TOOL CO., THE Raymond Anderson, Pres.-G. M.; G. H. Sommerfield, Supt.	6545 Carnegie Ave.
DDD	AMER. WATCHMANS TIME DETECTOR CO., THE Chas. A. Keller, Pres.-G. M. Supt. P. A.; Maurice Greenwald, Secty;	3403 Perkins Ave.
B	AMES BAG MACHINE COMPANY J. F. Ames, Pres.; W. P. Ames, Gen. Mgr.-Supt.; J. W. Alexander, P. A.	5606 Euclid Ave.
BB-N-ZZ	ANCHOR POST IRON WKS. W. L. Brannan, Dist. Mgr.	Guardian Bldg. (See Euclid, O.)
EE	ANCHOR WELDING CO. H. S. Brown, Prop.; C. W. Lemock, Asst. Prop.	Carnegie & E. 55th St.
B-NN	ANDERSON, V. D. COMPANY, THE C. O. Anderson, Pres.-G. M.; F. V. Anderson, V. P.-Ch. Engr.; A. D. Anderson, S. T.; F. G. Freer, P. A.; D. S. Kirkendall, Gen. Supt.	W. 96th St. & N. Y. C.
T	ANDERSON ROLLED GEAR CO., THE H. N. Anderson, Pres.; G. Lewis, G. M.-P. A.; J. Marshall, Supt.	Berea Rd. & N. Y. C.
N	ANGELL NAIL & CHAPLET CO., THE G. H. Angell, Pres.-G. M.-P. A.	2657 E. 79th St.
K	APEX BRASS MFG. CO., THE R. Hersburn, Pres.-G. M. P. A.	3063 E. 61st St.

The UNITED STATES ELECTRICAL TOOL CO.



Pioneer Manufacturers of
Portable Electrically Driven Drills
and Grinders



G. M. LAWRENCE

District Repr. for Northern Ohio

Office at 512 Bangor Bldg., CLEVELAND

PROSPECT 1859

CENTRAL 2520-W

MARINE AND POWER PLANT SPECIALTIES

Condensers, Steam and Power Pumps, Centrifugal Pumps, Feed Water Heaters, Storage Heaters, Evaporators, Distillers, Oil Heaters and Coolers, Steam Traps, Steam, Oil and Air Separators, Uniflow Return Tubular Boilers, Titusville Tubular Boilers, Vertical Boilers, Brick Set Boilers, Young Centrifugal Vacuum and Boiler Feed Outfits, Engberg's Dynamos and Engines, Oil Burners, Steel Storage Tanks.

BRASS AND COPPER

Tubes, Sheets, Plates, Rods, Etc. Condenser Tubes and Ferrules, Brass Die Forgings, White Metal Die Castings, Screw Machine Parts, Seamless Copper Boiler Ferrules, Special Drawn Shapes.

PUT YOUR ENGINEERING PROBLEMS UP TO US

THE HUGHES-LIMBACH COMPANY

118 ST. CLAIR, EAST

CLEVELAND, OHIO



SUPERIOR STEEL CO TAMP C A

STEEL STAMPS OF QUALITY

1220 WEST SIXTH STREET

CLEVELAND, O.

INSPECTION HAMMERS
BILLET MARKERS
DESIGN AND
TRADE MARK STAMPS

"SUPERIOR QUALITY
STEEL LETTERS
AND FIGURES

Sandusky Chamber of Commerce

Sandusky offers unusual opportunity to the manufacturer seeking excellent labor conditions and ideal business facilities

Bank Resources \$15,000,000.00

Five Railroads

Two Traction Lines

Great Lakes Navigation

Available Industrial Sites

A live Chamber of Commerce ready to support any bona fide proposition

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
R-VV	APEX ELECTRICAL MFG. CO., THE W. A. Frantz, V.-Pres.; C. G. Frantz, S. T.-Gen. Mgr.; R. H. Clark, Wks. Mgr.	1067 E. 152nd St.
H-K	ART METAL MFG. CO., THE W. E. Cochrane, Pres.-Supt. P. A.	E. 61st & Curtis Ave.
H-K	ATLANTIC BRASS & ALIMUNUM FDY. CO. E. G. Wilson, Pres.-Gen. Mgr.-Pur. Agt.	6923 Quincy Ave.
U	ATLAS BOLT & SCREW CO., THE H. D. Marble, Pres.; S. D. Wright, V. P.; C. R. Harbaugh, S. T.; J. H. Harrison, G. Mgr.; L. A. Harrison, Fcty. Mgr.; J. E. Weit, Sales Mgr.; J. H. Boyer, P. A.	1100 Ivanhoe Rd.
S	ATLAS CAR & MFG. CO., THE H. D. Marble, Pres.; S. D. Wright, V. P.-G. M.-Sales Mgr.; C. R. Harbaugh, S. T.; E. W. Schellentrager, Ch. Engr.; H. G. Hudson, Fcty. Mgr.; J. T. Seamen, P. A.	1144 Ivanhoe Rd.
BB-FF-H-X	ATLAS FDY. CO., THE J. H. Bruce, Pres.; A. Wathey, Secty.; B. R. Pearse, Treas.-G. M.-Ch. Engineer, P. A.; Sales Office Chas. L. Bennett, Sales Mgr.	(Wks. Shaw Ave. & Big Four R. R.) Guardian Bldg.
N	ATLAS TACK CORP. C. K. Hill, Gen. Mgr.-Pur. Agt.	Holton Ave. & E. 83rd St.
E	ATLAS WHEEL CO., THE H. P. Arnt, Pres.; T. N. Aikens, Fcty.-G. M.; R. Banks, Ch. Engr.; A. Weber, P. A.	2146 Srcanton Rd.
D-QQ	AUER REGISTER CO., THE Geo. S. Auer, Pres.-Gen. Mgr.-Supt. Pur.-Agt.	3608 Payne Ave.
QQ-ZZ	AUSTIN CO., THE Samuel Austin, Pres.; W. J. Austin, V. Pres.; J. S. Ruple, V. Pres.; C. W. Kinnison, Secty.; G. D. Leopold, Pur. Agt.	Office 16112 Euclid Ave. Plant—Bliss Rd. Mill—E. 152nd St.
BB-DDD	AUTOCALL CO., THE F. E. Ovenden, Dist. Sales Mgr.	Builders Exch.
E-T-DD	AUTOMOBILE MACHINE CO. J. R. Hall, Pres.; Duffield Miles, G. M.; H. Werkley, Gen. Supt.	London Rd. & Euc. Av.
U-O-E	AUTOMOBILE SCREW PRODUCTS CO., THE C. W. Blossom, Pres.; J. P. Blossom, Treas.; G. Staples, G. M.-P. A.; H. W. Townsend, Supt.	E. 152nd & N. P. R. R.
BB-U	AUTOMOTIVE BOLT & NUT CO., THE J. V. O'Neill, Pres.-G. M.-P. A.	Hanna Bldg.
B-X-D-R-DD	AUTO TOOL & GAUGE CO., THE John J. Zeitz, Ch. Engr.-G. M.; S. S. MacIntosh, Sales Mgr.	418 Prospect Ave., N. W.
B-DD-II	B. & W. TOOL & DIE CO. W. W. Billings, Pres.-Supt.; B. Bloomberg, Secty.-P. A.	102 St. Clair Ave. N. W.
Q	BAILEY METER CO. E. G. Bailey, Pres.; R. S. Coffin, Treas.-G. M.; E. J. Horgan, P. A.; P. Malbas, Gen. Supt.	2015 E. 46th St.
BB-00	BAIRD PNEUMATIC TOOL CO. C. I. Cartwright, Dist. Mgr.	Bangor Bldg. (Wks. Independence, Mo.)
E-S	BAKER, R. & L. CO., THE F. W. Treadway Pres.; E. J. Bartlett, V. P.-G. M.; M. P. Southard, Secy.; W. C. Fischer, Treas.; E. C. Stahl, Fcty. Mgr.; E. H. Remde, Ch. Engr.; F. C. Stier, Gen. Supt.; C. E. Geiger, P. A.; E. W. Sankey, Asst. P. A.; J. J. Sheehy, M. M.; M. A. Watterson, Sales Mgr. Sales Office A. J. Gates, Dist. Mgr.; H. B. Greig, Sales Engr.	2180 W. 25th St. Leader-News Bldg
DD-II-JJ	BAKER-WAECHTER CO., THE F. Baker, Pres.; D. A. Hill, G. M.-Supt.-P. A.	3139 Croton Ave.
BB-A-B-II-KK	BALING TIE BUCKLE CO. Alpha M. Brown, Dist. Sales Mgr.	Waterloo Rd. & E. 168th. (See United Stamping & Mch. Co., The.)
P-CC	BARBER-COLMAN CO. W. A. Barber, Pres.-G. M.; W. B. Foster, Treas.	801 St. Clair Ave., N. E.
BB-CC	BARBER-FOSTER ENGR. CO. Edw. D. Cassel, Dist. Mgr.	5005 Euclid Ave. (Wks. Friendship, N. Y.) Davis & Farley Bldg., M. O. Aurora, Ill.

THE HESS - SCHENCK COMPANY

WE CARRY A LARGE STOCK OF



New and Used
Machine Tools

Telephone Main 3954

801 St. Clair Avenue N. E.
CLEVELAND, OHIO

We Make Saw Repairs
of All Kinds



We Grind Knives and
Shear Blades

SUPREME

The Master Made

Band Saw

For Cutting Wood, Brass, Aluminum, Tool Steel, etc.

Circular Saws for Wood or Metal, Planer and Jointer Knives

Saws and Saw Tools of Every Description. We Specialize in Saws and Knives
Our Motto—SERVICE AND QUALITY

Send Us Your Inquiries

The Saw & Knife Specialty Company

1330-32-34 ST. CLAIR AVE.

CLEVELAND, OHIO

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
A-B-II-KK	BARDONS & OLIVER George C. Bardons, Prop.; John G. Oliver, Prop.; S. Johns, Secty.-G. M.-P. A.; Edward A. Dubbs, Gen. Supt.; E. J. Hornberger, Ch. Engr.	1133 9th St., N. W.
BB-QQ	BARSHAL CO., THE J. J. Shalvoy, Pres.; Guy Chase, P. A.	2031 Euclid Ave
D-II-DD	BARTH STAMPING & MACH. WKS. J. J. Barth, Prop.-Supt.-P. A.	3815 W. 34th St.
B-Z-QQ-VV	BARTLETT, C. O. & SNOW CO., THE C. O. Bartlett, Pres.; H. H. Bighouse, V. P.; W. S. Lister, S. T.; E. J. Neville, Gen. Mgr.; M. E. First, Ch. Engr.; C. J. Neville, Fcty. & Prod. Mgr.; C. R. Willson, P. A.	French & Winter Sts.
BB-I-PP	BATH, CYRIL J. & CO. C. J. Bath, Prop.	1603 St. Clair Ave.
BB-I-PP	BAUSCHKE, C. C. MCHRY. CO. C. C. Bauschke, G. M.-Sales.	1034 St. Clair, N. E.
BB-SS	BECKWITH MACHINERY CO. E. G. Stoner, Dist. Mgr.	1500 Lakeside Ave.
L	BEDAUX, CHARLES E. CO., THE Chas. E. Bedaux, Pres.-G. M.; F. Ivan Anderson, Treas.-P. A.; C. L. Stevens, Ch. Engr.; F. W. Sutton, Sales Engr.	4500 Euclid Ave.
B-H	BERKSHIRE MFG. CO. R. H. York, Pres.; G. L. Cannon, Secty.-G. M.-P. A. W. D. Fraser, Ch. Engr.-Supt.	1011 Power Ave.
A-B-H-K	BERYK CO., THE Harry H. Barclay, Pres.-Gen Mgr.; M. R. Gillies, V. Pres.; M. W. Barclay, Secty.-Treas.; J. J. Becker, Fcty. Mgr.	1265 W. 2nd St.
K	BEST MFG. COMPANY David Kaatz, Prop.-P. A.	4612 St. Clair Ave.
BB-G	BETHLEHEM STEEL CO., THE E. E. Goodwillie, Sales Agt.	Guardian Bldg.
D	BETTCHEER STAMPING & MFG. CO., THE H. P. Ranney, Pres.-G. M.-P. A.; E. C. Ranney, S. T.-P. A.; F. Bump, Engr.-Supt.	3106 W. 61st St.
D	BEVINGTON METAL STAMPING CO., THE John E. Bevington, Pres.-G. M.-Supt.	1545 E. 18th St.
O	BIDLE, W. S. COMPANY W. S. Bidle, Pres.-G. M.-P. A.	1408 E. 47th St.
BB-I-PP	BIGGS-WATTERSON CO., THE P. H. Biggs, Pres.; R. W. Cavanaugh, Secty.-P. A.;	1237 W. 9th St.
G	BIGSBY METALS CO., THE Bernard Bigsby, Pres.-Treas.-G. M.; A. C. Pahnke, V. P.; W. E. Kasten, Secty.-P. A.	411 Long Ave.
BB-I-K-PP	BINGHAM, WM. COMPANY, THE H. D. Cram, V. P.-G. M.	1278 W. 9th St.
B-NN-XX	BISHOP & BABCOCK CO., THE E. S. Griffith, Pres.; E. T. Sargent, Secty.; J. H. Champ, Treas.; Theo. Champ, Gen. Supt.; W. A. Haak, P. A.	1200 E. 55th St.
BB-B-E-AA-OO	BLACK & DECKER MFG. CO. D. C. Paul, Dist. Mgr.	2030 E. 22nd St. (Wks. Towson Hgts., Baltimore, Md.)
BB-A-B-WW	BLISS, E. W. COMPANY H. F. Hughes, Dist. Mgr.; L. H. Carter, Sales Engrs.; F. K. Dailey, Sales Engr.; S. J. Thomas, Sales Engr.	Cleveland Discount Bldg. (Main Office, Brooklyn, N. Y.)
A-DD	BLOMQUIST-ECK MACH. CO., THE W. E. Tousley, Pres.; H. J. Nord, Secty.; A. E. R. Blomquist, Ch. Engr.; J. V. Eck Supt.	1146 E. 152nd St.
DD-II	BODINE MACHINE COMPANY Homer Bodine, Prop.-Supt.	2401 Superior Ave. N. W
D	BOEHM PRESSED STEEL CO., THE J. J. Boehm, Gen. Mgr. Supt.	2219 W. 63rd St.
BB-JJ-MM	BOKER, H. & CO., INC. Clyde Moore, Dist. Mgr.	1331 St. Clair Av.

DESIGNS, SPECIFICATIONS
AND ESTIMATES FOR
MACHINERY, FACTORY OR
OTHER BUILDINGS.
DRAWINGS, INSPECTION,
SUPERVISION AND
FACTORY PRODUCTION.

CHAS. A.
BOYD
ENGINEER

CONSULTATION DESIGNS DRAWINGS
1836 EUCLID AVENUE
CLEVELAND, OHIO

APPRAISALS,
CONSULTATION, REPORTS,
LAYOUTS OF EQUIPMENT FOR
MACHINE SHOPS, FOUNDRIES
OR STRUCTURAL SHOPS,
POWER PLANTS, ETC.
ORGANIZATION AND OPERATION.



**TWIST DRILL
COMPANY
CLEVELAND**
NEW YORK-CHICAGO-LONDON

**"Mezzo" Drills Stand For Greater
Production—Less Cost.**

CLEVELAND, CUYAHOGA COUNTY, OHIO		
Class	Firm and Personnel	Address
D-DD	BOMGARDNER MFG. CO., THE Otis Bomgardner, Pres.; Homer Bomgardner, Vi.-Pres.; Carl Baumgardner, Secy.-Treas.; Supt.-Pur. Agt.	1384 Hird Ave.
EE	BOOM BOILER & WELDING CO., THE Benj. Boom, Prop.	1615 Merwin Ave.
GGG	BORN STEEL RANGE CO., THE A. W. Hawkins, Pres.; W. F. Born, V. P.-P. A.-Fcty. Mgr.; H. R. Lynn, Secty. H. G. Born, Treas.-G. M.; C. C. Banks, Ch. Engr.; B. F. Braun, Gen. Supt.- Asst.P. A.; H. Schlager, M. M.; Sales Mgrs.—H. R. Lynn, F. H. Atwood.	3945 W. 25th St.—Sales Office, 517 Huron Road.
BB-D	BOSSERT COPR., THE W. W. Vesey, Sales Mgr.	Citizens Bldg.
BB-I-T	BOSTON GEAR WORKS, THE C. R. Jamison, Mgr. Sales.	Wade Bldg. (Wks. Norfolk Downs, Mass.)
BB-G-U-JJ	BOURNE FULLER CO., THE B. F. Bourne, Chr. Board.; H. A. Fuller, V.-Chr. Board; R. S. Hall, Pres.; L. H. Elliott, V.-Pres.-Treas.; F. K. Moore, V.-Pres.; F. H. Chapin, V.-Pres.; J. E. Kreps, V. Pres.; M. L. Hopkins, Secy.; A. H. Preston, Pur. Agt.	(Salee) Hanna Bldg.
G-U	BOURNE FULLER CO., THE (UPSON WKS.) F. H. Chapin, V. Pres.; Gen. Supt.; E. H. Mix, Fcty.-Mgr.; Willard Brown, Ch. Engr.; A. H. Preston, Pur. Agt.	Scranton Rd.
E-D-U	BOWEN PRODUCTS CORP. (CLEV. DIV.) H. A. Keith, G. M.-Sales; Edw. Peters, Prod. Mgr.; J. W. Sutton, P. A.; D. C. Wilkinson, Gen. Supt.	382 E. 72nd St. (Wks. Auburn, N. Y.)
H-X	BOWLER FOUNDRY CO., THE J. H. Bruce, Pres.; Arthur Riemer, Ch. Engr.; Chas. Ahrens, Gen. Supt.; H. A. Baker, P. A.	1688 Columbus Rd.
L	BOYD, CHARLES A. (ENGINEERING) Chas. A. Boyd, Prop.	Union Bldg.
BB-G-K-NN	BOYD, H. & COMPANY Hugh Boyd, Prop.	Wade Bldg.
BB-PP	BRANDES MACHINERY CO. H. Brandes, Pres.-Sales.	Marion Bldg.
LLL	BRASS & ALUMINUM PRODUCTS CO., THE J. F. May, Pres.; J. H. Kilroy, V. Pres.; S. A. Kostyk, Secy. Treas.	5119 Euclid Ave.
EE	BRAZE-WELD CO., THE F. H. Kulow, Pres.; P. C. Kreitz, Gen. Mgr.; M. J. Vickery, Secy.-Treas.; C. C. Weber, Pur. Agt.	1298 W. 4th St.
DD	BREHM MACHINE & TOOL CO. A. L. Brehm, Pres. G. M.; H. W. Green, Supt.	2095 E. 18th St.
BB-G-JJ	BRIER HILL STEEL CO., THE J. C. Wicks, Dist. Mgr. Sales.	Hanna Bldg. (Wks. Youngstown, Ohio)
DD-II	BRIERLEY MACHINE CO. W. E. Brierley, Prop.-Supt.	1736 E. 22nd St.
Z	BRIGHTMAN FURNACE CO. Thos. M. Campbell, Prop.-G. M.	2570 Broadway
H-X	BROADWAY FDRY COMPANY, THE R. Fleischman, V. P.-G. M.; A. J. Dien, P. A.	8205 Franklin Ave.
G-ZZ	BROOKS, T. H. & CO. W. H. Shepard, Pres.-G. M.; Geo. Gehring, Supt.; J. A. Speck, P. A.	3104 Lakeside Ave.
E	BROOKS PISTON RING CO. B. Ranke, G. M.-P. A.; B. Brooks, Secty.-Supt.	5320 St. Clair Ave.
BB-P-CC	BROSSIUS, E. E. COMPANY J. C. Bricker, Dist. Mgr.	Hanna Bldg. (Wks. Pitts., Pa.)
CC-Z-P	BROWN HOISTING MCHRY. CO., THE A. C. Brown, Pres.; Melvin Pattison, V. P.-G. M.; George C. Wing, Secty.; C. T. Pratt, Treas.; W. K. Monroe, Ch. Engr.; R. G. Clapp, P. A.; W. L. Ely, Fcty. Mgr.	4403 St. Clair Ave.
E-DD	BROWN TRAFILOG COMPANY W. H. Brown, Prop.-Engr.	6538 Carnegie Ave.

Standardized Boston Gears

600,000 GEARS IN STOCK

Spur, Bevel, Worm, Spiral, and Internal Gears, Rack, Pinion Wire,
Sprockets, Chain, Universal Joints, Ball Bearings.

Gear Cutting and Gears Made to Order

SEND BLUE PRINTS FOR ESTIMATES

CLEVELAND BRANCH 803 W. SUPERIOR AVE.
PHONE MAIN 5354



Main Office and Factory, Norfolk Downs,
Mass. Branches at New York and Chicago.
DEALERS IN ALL LARGE CITIES

Have your Designers and Superintents Get Our Catalog?

DEALERS IN ALL PRINCIPAL CITIES

"CLEAN QUALITY"

CLEVELAND BRANCH—716 Superior Ave. N.W. Phone Cherry 916

CHICAGO BRANCH—9 S. Clinton St. Phone Franklin 5734



*What More
Need We Say?*

Charlotte Leather Belting Co.

CHARLOTTE, N. C.

MACHINE TOOLS — NEW *and* SECOND HAND

We Carry a Large Stock of New and Used
Tools in Cleveland and Dayton.

Complete Line of Jones & Lamson Machine Co.

Die Heads and Chasers in Stock.

Tangent Cut Box Tools.

We are also Representative Sales Agents for the Following
Manufacturers :

THE BRADFORD MACHINE TOOL COMPANY

THE FOSDICK MACHINE TOOL COMPANY

CHARD LATHE COMPANY

KEMPSMITH MANUFACTURING COMPANY

OHIO MACHINE TOOL COMPANY

THE BIGGS-WATTERSON CO., CLEVELAND, OHIO

Branch: DAYTON, OHIO



THE EAGLE BOLT AND FORGING Co.

1435 East Forty - Fifth Street

CLEVELAND, OHIO

—MANUFACTURERS—

Small Drop Forgings *and* Special Upset Pieces

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
F	BROST PATTERN WKS., THE J. V. Brost, Pres.; O. W. Brost, V. Pres.-Pur. Agt.; Albert Brost, Gen. Mgr.	1276 E. 55th St.
N	BROWN FENCE & WIRE CO., THE Jas. Brown, Pres.; Wm. Brown, V. Pres.; Frank Stitz, Secy.-Treas.-Pur. Agt.	6532 Juanita Ave.
P-ZZ	BROWNING CO., THE Sheldon Cary, Pres.-Treas.; L. A. Murfey, V.-Pres.-Ch. Engr.; R. G. Miller, Jr., Sec'y.-Sales Mgr.; N. W. Thomas, Fcty. Mgr.-Gen. Supt.; A. S. Meyer, Prod. Mgr.; G. T. Stalley, Jr., Pur. Agt.	16226 Waterloo Rd
P-R-CC	BROWNING, VICTOR R. CO. Victor R. Browning, Pres.-Gen. Mgr.; C. White, Secy.-Treas.; W. D. Browning, Ch. Engr.; O. G. Wellman, Supt.-Pur. Agt.	17701 L. S. Blvd.
C-DD	BRUCE-MACBETH ENGINE CO., THE C. E. Curtiss, V. P.-G. M.; C. J. Snow, S. T.-P. A.; J. G. Mesker, Gen. Supt.	2111 Center St.
K-GGG	BRYANT HEATER & MFG. CO., THE E. P. Bailey, Jr., Pres.; Otto Fox, V. P.; A. C. Orth, S. T.-P. A.	952 E. 72nd St.
BB-I-UU	BUCKEYE BELTING & SUPPLY CO. J. V. Smith, V. P.-G. M.-P. A.	1560 W. 3rd St.
E-H-DD	BUCKEYE BRASS & MFG. CO., THE H. Selker, Pres.; C. J. Allmendinger, V. P.; N. M. Carl, Secy.-P. A. (Metals); E. Disinger, Treas.-P. A. (Mchry.) Ch. Engr.; D. McDonald, Prod. Mgr. & F. Mgr. R. Neat, M. M.	6410 Hawthorne Ave.
M	BUCKEYE FORGING CO. J. W. Baxter, Pres.; E. T. C. Schwan, Gen. Mgr.-Pur. Agt.	10251 Harvard Ave.
BB-FF	BUCKEYE WELDING & SUPPLY CO., THE F. T. Martin, Pres.-Fcty. Mgr.; B. Seidenwand, V. P.- W. H. Martin, S. T.-P. A. G. M.; S. A. Martin, Prod. & Sales Mgr.; U. F. Witner, Dist. Mgr.; T. C. Evans, Sales Rep.; A. G. Webb, Asst. P. A.	1544 W. 6th St.
T-DD-HH	BULTMAN, F. H. CO., THE Fred H. Bultman, V. Pres.-Gen. Mgr.; Stanley Bultman, Pur. Agt.	10271 Berea Rd.
BB-E-K	BUNTING BRASS & BRONZE CO. J. E. Owens, Dist Mgr.; H. R. Holt, Sales Mgr.	1362 E. 6th St. (Wks. Toledo, O.)
BB-R	BURKE ELECTRIC CO. L. L. Myers, Dist. Mgr.	Ill. Bldg. (Wks. Erie, Pa.)
BB-OO	BURY AIR COMPRESSOR CO. J. L. Vergilio, Dist. Mgr.	Bangor Bldg. (Wks. Erie Pa.)
C-EE	BUSH BOILER & WELDING CO., THE F. C. Bush, Gen. Mgr.-Pur. Agt.	1421 W. 114th St.
BB-G-LL	BYERS, A. M. CO. F. Collins. Mgr.	Perry-Payne Bldg.
D-K-DD	BYRNE MFG. CO., THE H. M. Dillhoefer, Pres.; E. M. Dillhoefer, V. Pres.-Pur. Agt.; F. J. Dillhoefer, Secy.-Treas.	6005 Carnegie Ave.
E-M	C. G. SPRING CO. Christian Grl, Pres.; H. H. Burton, V. Pres. Secy.; A. H. Homan, Treas. Gen. Mgr.	Office 1901 E. 13th St. Plant 1820 E. 62nd St. (Temporary)
BB-G-JJ	CAMBRIA STEEL CO., THE W. B. Smyth, Dist. Mgr.-Sales.	Swetland Bldg.
HHH	CANFIELD OIL CO., THE Louis Carruth, Pres.; Chas. McLean, V. Pres.; J. A. Jackson, Treas.; M. Dipple, Pur. Agt.	3216 E. 55th St.
BB-A-P-WW	CANTON MCH. & FDY. CO.	Canton, O. (See Morris & Reynolds)
AAA	CARBO-HYDROGEN CO. OF AMER. J. E. O'Malley, Supt.	Center & Hemlock Sts.
BB-G-JJ	CARBON STEEL CO. OF PITTSBURGH H. A. Noble, Dist. Sales Agt.	Williamson Bldg.
CCC	CARBONIZING MATERIAL CO., THE G. I. Stevenson, Pres.; J. T. AuWerter, V. P.; J. R. Snyder, Secty.; J. Barnard, Treas.	1019 Front St.
O	CARBONIZED STEEL PRODUCTS CO., THE L. J. Gurevich, Pres.; Harry S. Cooper, V. P.-G. M.-P. A.; J. S. Kustin, S. T.	14413 Saranac Ave.

GENERAL MACHINE & TOOL SHOPS of Cleveland

JOHN PICHLER COMPANY

SPECIAL TOOLS FOR PLUMBING GOODS

4411 SUPERIOR AVE.

Randolph 5287

CLEVELAND, OHIO

BODINE MACHINE COMPANY

DIES, TOOLS

HOMER BODINE, Prop.

JIGS, FIXTURES

2401 SUPERIOR AVE. N.W.

Cherry 1109

CLEVELAND, OHIO

EUCLID MACHINE & ENGINEERING CO.

F. SNELLER—A. C. SNELLER, Props.

General Machinists

Special Machinery

Tool Makers

1838 NOBLE RD.

EDDY 4139

CLEVELAND, OHIO

BARTH STAMPING & MACHINE WORKS

STAMPINGS

LAMINATION DIES

SPECIAL TOOLS

3814 W. 34th STREET

Lincoln 1858

CLEVELAND, OHIO

THE WELDWORK MACHINE CO.

WELDING, CUTTING, BRAZING, SHERARDIZING

1101 POWER AVE.

Prospect 2918

CLEVELAND, OHIO

THE ACTIVE MACHINE AND TOOL

DESIGNERS AND MANUFACTURES—Jigs—Gages—Dies, Tools—Special Machinery

1220 W. SIXTH ST.

Main 1909

CLEVELAND, OHIO

PFAHL MACHINE & TOOL CO.

SPECIAL MACHINERY—PRODUCTION WORK

718 FRANKFORT AVE.

Cherry 1116

CLEVELAND, OHIO

JOHN WEBER

TOOLSMITH

615 ST. CLAIR AVE. N. E.

Main 452

CLEVELAND, OHIO

THE H. & K. TOOL COMPANY

SPECIAL TOOLS - SPECIAL MACHINERY - PRODUCTION WORK

520 PROSPECT AVE. N. W.

Cherry 1842

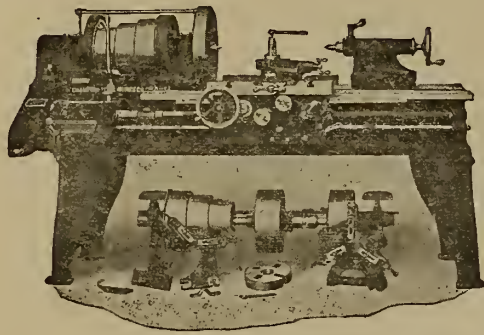
CLEVELAND, OHIO

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

Main Office and Showroom: 717 LAKESIDE AVE. N.W.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
BB-I-AA	CARBORUNDUM CO., THE John MacArthur, Dist. Mgr.; A. M. Taylor, Office Mgr.	1262 Ontario St. N. W.
U-E-DD	CAREY MACHINE CO., THE U. P. DeHart, Pres.-Supt.	5606 Curtis Ave.
DD	CARL, M. J. MACHINE CO. M. J. Carl, Prop.	1934 St. Clair veA.
U-N	CARLIN ANTHONY RIVET WKS. Anthony Carlin, Pres. Treas.; J. E. Carlin, V. P.; C. J. Carlin, Secty.; M. J. McGuire, P. A.-Sales.	2717 E. 75th St.
BB-G-JJ	CARPENTER STEEL CO., THE A. Heil, Mgr. Sales.	400 Lakeside Ave., N. W. (Wks. Reading, Pa.)
BB-A-B-I-OO	CARTWRIGHT, C. I. C. I. Cartwright, Prop.	Bangor Bldg
AAA	CASE HARDENING SERVICE CO., THE W. C. Bell, Pres.-G. M.-P. A.	2281 Scranton Rd.
K	CENTRAL BRASS MFG. CO., THE E. A. Eckhouse, Pres.; L. Fisher, P. A.; J. Mortimer, Supt.	6203 Cedar Ave.
BB-G-JJ	CENTRAL STEEL CO., THE W. B. Hickox, Dist. Mgr.	Hickox Bldg. (Wks. Massillon, Ohio.)
HH	CHAIN PRODUCTS CO., THE F. G. Hodell, Pres.-Treas.-G. M.; H. H. Hodell, V. P.-P. A.; F. A. Olmstead, Fcty. Mgr.-Supt.; C. C. Kempert, Prod. Mgr.; Charles M. Luthy, Sales Mgr.; A. N. Edenburn, M. M.	3924 Cooper Av.
BB-HH	CHAIN & SPROCKET SERVICE E. W. Penton, Pres.-Gen. Mgr.; E. J. Furst, Sec'y; F. J. Furst, Treas.	2820 Cedar Ave.
M	CHAMPION MACHINE & FORGING CO., THE L. W. Greve, Pres.; J. F. Connelly, V. P.-G. M.; H. D. Krauss, S. T.; E. C. Edwards, P. A.; J. V. Wilkins, Gen. Supt.; F. F. Pepper, Sales Mgr.	3695 E. 78th St.
II	CHAMPION REGISTER CO., THE O. J. Ringle, Pres.; C. E. Terrill, V. Pres.; C. F. Bruggemier, Jr., Secy.; H. A. Taylor, Treas.; H. R. Ochs, Pur. Agt.	6921 Colfax Road
N	CHAMPION RIVET CO., THE R. D. Champion, Pres.; W. J. Reilley, S. T.-G. M.-P. A.; M. F. Ryan, Supt.; O. R. Wilson, Ch. Engr.	Harvard & E. 108th St.
GGG	CHAMPION STOVE CO., THE A. M. Coleman, Secty.-Treas.-G. M.; P. A.; Walter Brown, Fcty. Mgr.	4001 W. 25th St.
E	CHANDLER MOTOR CAR CO. F. C. Chandler, Pres.; George M. Graham, V. P.; J. R. Hall, V. P.-G. M.-Supt.; Isadore Grossman, Secty.; Samuel Regar, Treas.; Chas. E. Lohr, Fcty. Mgr. Prod.; Hiram Walker, Ch. Engr.; G. E. McGinness, P. A.; E. J. Filiatrault, Asst. P. A. M. C. King, Asst. P. A.	E. 131st & St. Clair Ave.
B	CHANDLER & PRICE CO., THE R. J. Frackelton, Pres.; G. W. Frackelton, V. Pres.-Gen. Mgr.; J. E. Wilkinson, Sec'y-Pur. Agt.; Wm. Reichart, Ch. Engr.; R. S. Tyler, Gen. Supt.	6000 Carnegie Ave.
BB-I-II	CHAPIN-SKELTON CORP. A. M. Brown, Dist. Mgr. Sales.	803 St. Clair Ave. N. E. (Wks. Syracuse, N. Y.)
BB-UU	CHARLOTTE LEATHER BELTING CO. H. W. Nixon, Branch Mgr.	716 Superior Ave. N. W
B-DD	CHASE MACHINE CO., THE Edmund Dalglish, Pres.-Engr.; Geo. L. Graham, V. P.-Sales Mgr.; Herbert Chase, Secty.-P. A.; Frederick Metcalf, Treas.; J. L. Chase, Gen. Mgr.	2313 Elm St. N. W.
BB-G-LL	CHASE ROLLING MILL CO. W. B. Fairfield; C. K. Lenz, Sales.	Engineers Bldg.
OO	CHICAGO PNEUMATIC TOOL CO. T. P. Kimman, Gen. Mgr.-Supt.; L. G. Willman, P. A.; Ross Watson, Sales Mgr.	1241 E. 49th St.
CC	CHISHOLM & MOORE MFG. CO., THE G. N. Chandler, Pres.; E. Y. Moore, V. P.; V. M. Moore, Secty.; S. H. Moore, Gen. Mgr.; T. W. Johnson, Asst. Treas.-P. A.; S. S. Murfey, Fcty. Mgr.	E. 49th & Lakeside



MACHINE TOOLS NEW AND USED



C. C. BAUSCHKE MACHINERY CO.
1034 ST. CLAIR AVENUE N. E. CLEVELAND
MAIN 7949

CARBON - ALLOY - TOOL STEEL FORGINGS THE CLEVELAND DROP FORGE COMPANY 3801 SUPERIOR AVENUE, CLEVELAND, OHIO

THE BRASS AND ALUMINUM PRODUCTS CO. *ELECTRO PLATERS ON ALL METALS*

SILVER, NICKEL AND COPPER

Randolph 1953

5119 Euclid Ave.

Cleveland, Ohio

NATIONAL Covers the Field YOU "Break It" WE "Fix It"

Nothing Too Large or Small in the Line of Welding or Brazing.
We Also Specialize in Oxy-Acetylene Welding.

Your Patronage Cheerfully Solicited.

NATIONAL WELDING COMPANY

3951 St. Clair Ave.

CLEVELAND

Randolph 791

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

Who? HIGH CLASS EMPLOYMENT SERVICE

Est. 1906

INTERSTATE BUSINESS EXCHANGE

Est. 1906

MAIN 3629

658 ROSE BUILDING

CLEVELAND

FOR
Executives, Engineers,
Draftsmen, Salesmen,
Office Men and Women

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
D	CHISHOLM SHOVEL CO., THE A. Chisholm, Pres.; Chas. Hood, Gen. Mgr.-Pur. Agt.; Wm. Plies, Supt.	1558 E. 40th St.
BB-S	CINCINNATI RY. SUPPLY CO., THE W. A. Vincent, Sales Mgr.; C. A. Armstrong, Res. Mgr.	Wade Bldg.
DDD	CINCINNATI TIME RECORDER CO., THE J. DeLaney, Dist. Mgr.	Sloan Bldg.
H-DD	CITY BRASS FDRY. CO., THE Wm. D. Hirsch, Pres.; John Hammink, V. P.; Edw. Steehler, Secty.-P. A.; George Hammink, Treas.-G. M.; Dan'l J. Gluntz, Gen. Supt.	5310 St. Clair Ave.
H-X	CITY FOUNDRY CO., THE W. D. Sayle, Pres.; W. F. Swift, Secy.-Treas.-Gen. Mgr.	4629 Hamilton Ave.
ZZ	CITY IRON WKS. CO. Lewis Gibbs, Pres.; A. Goler, Supt.	2921 E. 72nd St.
B-DD	CITY MACHINE CO., THE John Manzelman, Supt.	5321 St. Clair Ave.
I-BB-PP	CLARK MACHINERY CO., THE L. B. Clark, Pres.	1235 St. Clair Ave.
C-K	CLARK MFG. CO., THE J. B. Clark, Pres.; L. B. Strong, V. Pres.; G. M.-P. A.; Fred Fernald, Supt.	1830 E. 38th St.
A-B-DD	CLARK-MESKER CO., THE L. H. Mesker, Pres.-G. M.; A. E. Puls, (Sales); A. W. Lueke, (Sales); W. H. Juergens, Gen. Supt.; F. A. Krug, Auditor, P. A.	18511 Euclid Ave.
C	CLAY ENGINE MFG. CO., THE H. H. Newson, Pres.-Ch. Engr.; J. N. Halle, Secty.; F. E. Walters, P. A.; Geo. Weisenbacher, Supt.	864 E. 72nd St.
AA	CLEVE. ABRASIVE WHEEL CO., THE J. R. Wild, Pres.-Gen. Mgr.; N. C. Yarin, V. P.; H. S. Roberts, S. T.-G. M.-P. A. T. C. Dunford, Fcty. Mgr.	2629 E. 25th St.
X	CLEVE. ALUMINUM CASTINGS CO., THE Jas. T. Tovell, Pres.-P. A.; Edw. W. Newman, S. T.-G. M.-Supt.;	901 Addison Rd.
R	CLEVELAND ARMATURE WKS., INC. F. M. Hibben, Pres.-G. M.; D. Mauldin, Secy.; H. J. Davis, Treas.-P. A.; D. A. Coolings, Supt.; F. S. Siebchin, M. M.	4732 St. Clair Ave.
A-B-KK-II	CLEVE. AUTOMATIC MACH. CO., THE A. L. Garford, Pres.; J. P. Brophy, V. P.-G. M.; D. L. Johnson, Secty.; H. M. Rich, Treas.-Sales; E. E. Blundell, Fcty. Mgr.; J. F. Burgess, Gen. Supt.; A. G. Boesel, Prod. Mgr.; F. E. Miller, Ch. Engr.; E. R. Salisbury, P. A.	2269 Ashland Road
E	CLEVE. AUTOMOBILE CO. J. V. Whitbeck, Pres.-G. M.; Sid Black, V. P.-Sales Mgr.; J. I. Kraul, S. T.; E. Karlson, Fcty. Mgr.-Prod.-Gen. Supt.; E. Wooler, Ch. Engr.; R. C. Hodge, P. A.; John Heiss, Asst. P. A.; H. E. Price, Equip. Engr.	Euclid & London Rd.
DD-B	CLEVELAND BEARING & MACHINE CO. L. H. Seidel, Pres.; R. W. Seidel, V.-Pres.; L. G. Slaman, Secty.-Treas.-Pur. Agt.	507 Champlain Ave
BB-I-PP	CLEVE. BELTING & MACHRY. CO. Wm. Hartle, Pres.-G. M. P. A.	1510 University Rd.
QQ	CLEVELAND BLOW PIPE & MFG. CO. E. H. Coney, Pres.-Gen. Mgr.-Supt.; D. R. Clements, Secy.-Treas.-Pur. Agt.	6950 Kinsman Road
K	CLEVE. BRASS MFG. CO., THE M. S. Barrett, Pres.; G. M. Soul, G. M.-P. A.; F. W. McCormack, Gen. Supt.	4606 Hamilton Ave.
K	CLEVELAND BRASS WORKS J. Arth, Pres.-P. A.; B. Arth, Supt.; P. Arth, G. M.	1525 E. 49th St.
DD	CLEVE. BUCKEYE MACHINE CO., THE E. D. Whipple, Prop.-P. A.; F. Allen, Prop.	3202 W. 98th St.
	CLEVE. BURIAL CASE CO., THE W. A. Price, Pres.; J. H. Donnelly, Secty.-G. M.; C. L. Hill, Treas.; E. E. Cronin, P. A.	2274 St. Clair Ave.
DD-E	CLEVE. CAMSHAFT CO., THE Hubert Merryweather, Pres.; Stanley Motch, Secy.-Treas.; H. C. Bayliss-Gen. Mgr.-P. A.	6520 Carnegie Ave.

HAVE YOU EVER USED A GOOD FLUX?

If Not, Try Our "Famous Cornell Fluxes" on Approval

For Gray Iron, Brass, Malleable Copper, Bronze and Aluminum



No pay if not satisfactory. In other words you try them before you pay for them; nothing could be more fair

THE CLEVELAND FLUX COMPANY

1023 FRONT AVE. N. W.

Bell Phone Main 6063

CLEVELAND, OHIO

THE CLEVELAND INSTRUMENT CO.

Electrical Measuring and Recording Instruments

Thermo - Electric and Resistance

PYROMETERS

Repairing all Electrical Measuring Instruments

1988 EAST 66th STREET

Randolph 5540

CLEVELAND, OHIO



Use the ADDRESS-PRESS to do your addressing and imprinting in *all* departments of your business. It enables you to handle your work speedily, accurately and with utmost economy. Twenty times faster than hand or typewriting.

Write or Phone for Booklet "MECHANICAL ADDRESSING"

THE ELLIOTT CO.

616 St. Clair Ave. N. E. Cleveland, Ohio

CHERRY 1863

When Your Belts are Slipping Your Profits are Sliding

Prevent that "slip" by using "SERO" LIQUID BELT DRESSING on your belting. "SERO" BELT DRESSING is not only guaranteed to prevent belts from slipping, but also to prolong their life fully 100 per cent.

We are willing to furnish a fifty pound can of "SERO" BELT DRESSING on 30 days trial with the understanding that if at the end of that time you do not find it satisfactory in every respect you can then hold the can subject to our order and no charge will be made for what you used in making the test. Why not order a trial can today and see for yourself just what it will do? We also put this dressing up in stick form.



We also manufacture Cutting Oils, Cutting Compound, Turpentine Substitute, Linseed Oil Substitute, Plastic and Liquid Asbestos Roofing Cements, Linseed Oil Soap, Gear Coating, Boiler and Smokestack Paint. Let us have your inquiries when in the market for any of the above articles.

Sero Specialty Company

Holton Ave. and C. & P. R. R.
CLEVELAND, O.

OHIO
SALES
OFFICE



MORSE CHAIN DRIVES



ENGINEERS
BUILDING
CLEVELAND

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
F	CLEVELAND CASTINGS PATTERN CO., THE F. W. Wood, Pres.-G. M.; A. K. Spencer, V. P.; D. G. Miller, Secty.-Treas. P. A.; V. G. Farner, Supt.	1930 E. 61st St.
HH	CLEVE. CHAIN & MFG. CO., THE L. D. Round, Pres.; L. D. Cull, S. T.; E. A. Round, Gen. Supt.; T. E. Round, P. A.	Penn R. R. & Henry St.
G-M	CLEVE. CITY FORGE & IRON CO. R. A. Harmon, Pres.; R. M. Coe, V. P.-Treas.-G. M.; A. B. Hummel, Secty.; N. W. Duffin, P. A.; H. Roesinger, Wks. Mgr.	E. 45th & Lakeside
GGG	CLEVE. CO-OPERATIVE STOVE CO., THE John F. Gill, Pres.; Chas. H. Coit, V. P.; H. C. Wilson, Secty.; C. A. Fagan, Treas.; K. D. Hutchinson, Sales Mgr.; James Mitchell, Gen. Mgr.; F. L. Balbach, P. A.	Central & E. 67th St.
D-H-N	CLEVE. COPPER FERRULE CO. A. W. Ellenberger, Pres.; J. R. Kraus, V. P.; A. J. Kroenke, Secty.-G. M.; M. Schwartz, Treas.-P. A.	1197 W. 67th St.
KK-II	CLEVE. CUTTER & REAMER CO., THE C. F. Lang, Pres.-G. M.; E. Dorner, Supt.-P. A.	1619 Merwin Ave.
DD-C	CLEVELAND CYLINDER REGRINDING CO. M. B. Monda, Pres.-Supt.-Pur. Agt.	12365 Euclid Ave.
FFF	CLEVELAND DENTAL MFG. CO., THE H. A. Slight, Pres.; G. H. Parkington, V. Pres.; W. E. Curtiss, Secy.-Treas.; Wm. Rosser, Fcty. Mgr.; J. P. O'Brien, Sales Mgr.; R. H. Spangle, P. A.	3307 Scranton Rd.
II-DD	CLEVELAND DIE & MFG. CO., THE H. Bockelman, Pres.-Treas.-G. M.; J. A. Neild, V. P.; Wm. F. Yahnke, Secy.-P. A.	748 E. 82nd St.
M	CLEVELAND DROP FORGE CO., THE E. J. McIlvried, V. P.-G. M.; F. H. Cushman, Treas.-P. A.	3803 Superior Ave.
BB-I-PP	CLEVELAND DUPLEX MCHY. CO., THE G. J. Hawkey, Loc. Mgr.	1224 W. 6th St.
R-B	CLEVELAND ELEC. & MCH. MFG. CO., THE A. S. Klein, Pres.; S. J. Schwenger, V. Pres.; A. Manhard, Secy.-Pur. Agt.; Ben Faulb, Treas.; W. E. Kidney, Supt.	720 Bolivar Rd.
R	CLEVELAND ELECTRIC MOTOR CO., THE M. Bowles, Pres.; H. O. Orr, Secty.-G. M.; George Markley, Ch. Engr.; D. C. Bergner, P. A.; H. O. Fisher, Gen. Supt.	5213 Windsor Ave.
BB-R	CLEVELAND ELECTRICAL SUPPLY CO., THE H. Guttentag, Pres.; S. Goldman, V. P.-P. A.; J. J. Madden, Secty.-Asst. T.; E. E. Lawrence, Treas.	220 High Ave. S. E.
G	CLEVELAND ELECTRO METALS CO., THE John W. Brown, Pres.-G. M.-P. A.-Sales; C. R. Walker, V. P.; H. Austin Hauxhurst, Secty.-Treas.	2391 W. 38th St.
D	CLEVELAND ENAMELING & MFG. CO. H. J. Trenkamp, Fcty.-Mgr.-Pur. Agt.	10012 Quincy Ave.
L	CLEVELAND EXPERIMENTAL LAB. CO., THE C. J. Weger, Pres. P. A.; R. E. Gotttron, V.-P. C.-Engr.; S. G. Fleisher, S. T.	1444 E. 49th St.
III	CLEVELAND FARE BOX CO., THE W. T. Cook, Pres.-G. M.; P. A.	4900 Lexington Ave.
CCC	CLEVELAND FLUX CO., THE J. C. Cornell, Pres.; Loren E. Souers, V.-Pres.; Clifford B. Cornell, Secy.-Treas.- Pur. Agt.	1023 Front Ave.
B	CLEVELAND FOLDING MACHINE CO., THE Reuben Hitchcock, Pres.; Wm. Wisner White, V. P.; E. H. Jones, Secty.-G. M.; S. W. Goodin, Treas.; W. G. Trautman, Ch. Engr.; A. A. Wood, P. A.; Paul V. Jones, Sales Mgr.	5200 Euclid Ave.
S	CLEVELAND FROG & CROSSING CO. Information withheld	6917 Bessemer Ave.
H-K-X-DD	CLEVELAND GAS BURNER & APPLIANCE CO., THE Harry Kerr, Pres.; Ira Baker, Secy.-Pur. Agt.	3702 Superior Ave.
Q	CLEVELAND GAS METER CO. W. H. Knight, G. M. P. A.	2180 E. 65th St.

MOTOR *and* GENERATOR REPAIRS

COMPLETE OVERHAULING AND REBUILDING OF ALL TYPES
ELECTRIC MACHINERY *both* A. C. and D. C.



We are Equipped for Winding and Repairing All Makes and Types of
ARMATURES, STATORS, ROTORS, FIELDS, SOLENOIDS, LIFTING
MAGNETS, WELDERS, TRANSFORMERS, ARMATURE COILS
and SPECIAL WINDINGS of Any Kind.

We have a Large Equipment of Coil Forms for Standard Industrial and Mill
Type as well as Railway and Mine Motors and can give Prompt
Service on Most Any Kind of Coil you may require.

COMMUTATORS. For all kinds of Service.
New, refilled repaired. Send us your old commu-
tators and we will refill, returning them to you as
good as new.

BEARINGS. For all makes of motors and
generators either bronze or babbited.

SHAFTS. Worn and broken shafts replaced.

For Thirty Years we have been repair-
ing Electric Machinery of all kinds and
when you send us your motors or other
electrical apparatus to be repaired this ex-
perience goes into the work that we do for
you. If you are not on our list of patrons
we are pleased to offer our services to you
feeling positive that if you will send us
your next repair job, the quality of our
work and service will please you, so that, we

will have gained a friend and added another
name to our list of satisfied customers.

When Inquiring for Prices whenever
possible give Name Plate Reading—H. P.
or K. W.—Speed—Voltage—Phase—Cycle
—Type. This information will enable us
to make prompt quotations. If job is so
urgent that you cannot wait for quotation
send it in and we will guarantee price will
be satisfactory.

THE PIFER ELECTRIC REPAIR AND MFG. CO.

1392 EAST 43d ST.

::

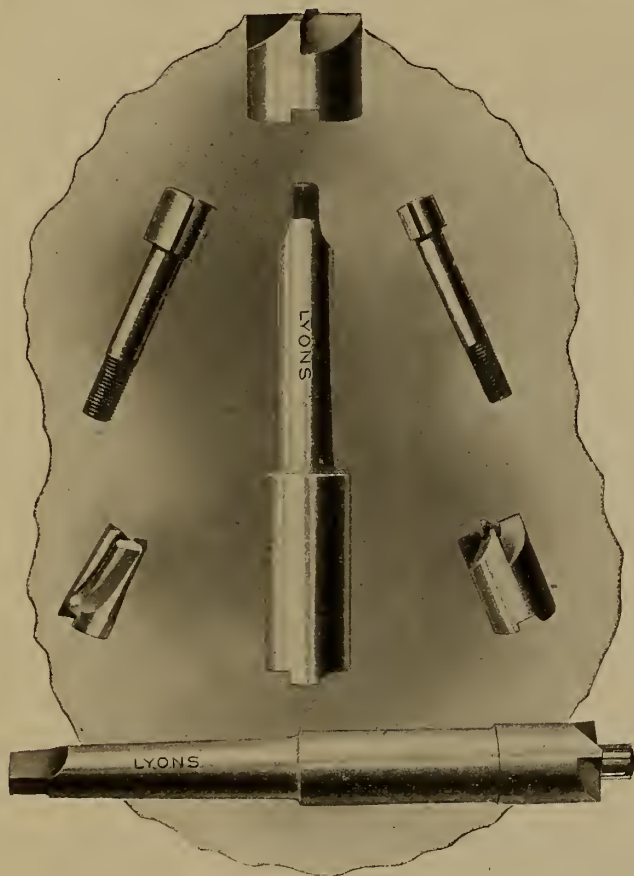
::

::

CLEVELAND, OHIO

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
X-E-D	CLEVELAND GRAPHITE BRONZE CO., THE B. Hopkins, Pres.; J. J. McIntyre, V. P.-G. M.; P. V. Miller, S. T.; J. L. Myers, Ch. Engr.; J. E. Smith, Prod. Mgr.; R. E. Moonery, P. A.	2906 Chester Ave.
DDD	CLEVELAND GUARDANT TIME LOCK CO. Robert E. Murphy, G. Mgr.; Wm. Breler, Gen. Supt.; Arthur J. Yarrell, Sales Mgr.	1514 Prospect Ave.
E	CLEVELAND HAMMERED PISTON RING CO. A. W. Wenzel, Pres.-G. M.; M. Wenzel, Supt.-Treas.; H. F. Gray, Secy.; G. M.-P. A.	2118 Superior Ave. N. W.
M-K	CLEVELAND HARDWARE CO., THE Chas. E. Adams, Pres.; T. P. Robbins, V. P.-Treas.; W. F. Gibbons, Secty.; E. E. Adams, Gen. Supt.; W. D. Lewis, P. A.	4518 Lakeside Ave.
DD-GGG	CLEVELAND HEATER COMPANY, THE Leo Friedman, Pres.-Pur. Agt.; Arthur Friedman, Supt.	1900 W. 112th St.
B-C-NN	CLEVELAND ICE MCH. CO., THE F. Wright, Gen. Mgr.-Pur. Agt.; A. E. Beals, Ch. Engr.; R. J. Claper, Supt.	2197 Ashland Rd.
BBB-FFF	CLEVELAND INSTRUMENT CO., THE Edward A. Noll, Pres.; C. J. Castle, Treas. J. R. Snyder, Secty.; W. B. North, G. M.-Supt. P. A.	1988 E. 66th St.
M-MM	CLEVELAND KNIFE & FORGE CO., THE M. E. Wager, Pres.; A. C. McDaniel, G. M.-P. A.; Leslie Hercik, Supt.	1960 W. 114th St.
VV	CLEVELAND LAUNDRY MCHRY. MFG. CO., THE J. H. Jones, Pres.-Treas.; G. M.-Sales; K. C. Jones, V. P.-Fcty. & Prod. Mgr. P. A.; F. H. Dunbar, Secty.; D. I. Jones, Sales Rep.; H. Frazee, Jr., Sales Engr.	5184 Fowler Ave.
D-GGG	CLEVELAND METAL PRODUCTS CO., THE L. S. Chadwick, Pres.; E. A. Dodd, V. P.-G. M.; W. M. Clapp, V. P.; J. C. Wallace, V. P.; G. L. Harrison, V. P.; Edw. Heina, V. P.-Treas; W. E. Sheppard, Secy.; C. C. Rehmer, Ch. Engr.; C. T. Healy, Fcty.-Mgr.; J. S. Beaton, Gen. Supt.; A. H. Schrader, P. A.; C. P. Bennett, P. A.; M. R. Nelson, P. A.; E. R. Porch, Dist. Mgr. Sales.	General Offices, 7609 Platt Ave.
D-GGG	CLEVELAND METAL PRODUCTS CO., THE	1135 Ivanhoe Rd. (See General Office.s)
D-DD	CLEVELAND METAL SPECIALTIES CO., THE F. D. Allen, Gen. Mgr.-Pur. Agt.	607 Long Ave.
D	CLEVELAND METAL STAMPING CO., THE E. Rice, Pres.; H. C. Thompson, Gen. Mgr.	3110 Payne Ave.
EE-O	CLEVELAND METAL TREATING & WELDING CO. F. F. Harman, Prop.-G. M.	4829 Lexington Ave.
II-DD-B	CLEVELAND MICROMETER CO. A. D. Ray, Prop.-Supt.	2284 E. 89th St.
C	CLEVELAND MOTORCYCLE MFG. CO. H. G. Alexander, Pres.-Treas.-G. M.; W. D. B. Alexander, V. P.; F. J. Starek, Secty.; A. J. Hall, Ch. Engr.; R. E. Gruber, P. A.; W. C. Koerner, Gen. Supt.; K. D. Poorman, Prod. Mgr.	7209 Platt Ave.
U-DD-II	CLEVELAND NATIONAL MACHINE CO. H. D. Marble, Pres.; C. P. Green, Treas.-G. M.; E. B. Gaumer, Gen. Supt.-P. A.	1366 W. 70th St.
UU	CLEVELAND OAK BELTING CO., THE George De Frieze, Pres.-Treas.-G. M.; Bernard Tracy, V. P.-P. A.-Fcty. Mgr.; Arthur E. Horne, V. P.; Harry J. Kimpel, Secty.;	1239 W. 9th St.
A	CLEVELAND PLANER CO., THE E. L. Essley, Pres.; W. B. Currier, Gen. Mgr.-Pur. Agt.	3148 Superior Ave.
OO	CLEVELAND PNEUMATIC TOOL CO., THE C. Greve, Pres.; E. S. Cook, V. P.; H. S. Covey, Secty.-Sales.; L. W. Greve, Treas.-G. M.; R. H. King, Ch. Engr.; A. Scott, Gen. Supt.; G. H. Hall, P. A.	3734 E. 78th St.
D-II	CLEVELAND PRESSED STEEL CO. Jos. Schulte, Pres.; Jos. Roquette, V. P.; John Schulte, Secty.; E. N. Shepard, Treas.-G. M.-P. A.; Don Hayden, Fcty. Mgr.	2953 E. 55th St.
A-B-WW	CLEVELAND PUNCH & SHEAR WKS., THE W. D. Sayle, Sr. Pres.; W. C. Sayle, Jr., Treas.-Gen. Mgr.; A. L. Bechtel, Wks. Mgr.; A. W. Perry, Ch. Engr.; J. M. Berry, Pur. Agt.	3917 St. Clair Ave.
	CLEVELAND RAILWAY CO., THE Terrance Scullen, M. M.	Shops, 4400 Harvard Ave.—M. O. Hanna Bldg.



"LYONS"

Interchangeable Spot Facers

The design of this Spot Facer permits the operator to make any combination of Pilots, Cutters and Holders within the range of tool.

Using this Spot Facer increases production and reduces tool upkeep.

Price list mailed on request.

LYONS MACHINE COMPANY

Cleveland, Ohio

GEO. H. PORTER

J. D. MYERS

GEO. H. PORTER STEEL TREATING CO.

Heat Treating, Carbonizing, Case Hardening, Annealing

WE ARE
SPECIALISTS
IN
HEAT TREATMENT
OF

High Speed Steel Tools

(No Shrinkage—No Scale)

Carbon Steel Tools

BELL PHONE MAIN 3695

2414 Superior Viaduct

CLEVELAND, OHIO

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
P-S-X	CLEVELAND RAILWAY SUPPLY CO., THE F. A. Peck, Pres.-Treas.; R. G. A. Phillips, V. P.; K. A. Neeson, Secty.; G. W. Pope, Sales Mgr.; W. H. Neeson, Sales Engr.	Swetland Bldg.
B-DD-II	CLEVELAND SPECIAL MACHINERY CO., THE J. T. Harvey, Pres.-G. M.; Jas. E. Terry, Secty.; H. E. Schuler, Treas.-P. A.	118 Noble Ct.
D	CLEVELAND STAMPING & TOOL CO., THE F. W. Judd, Pres.-G. M. Supt.; C. H. Coit, Secty.	E. 53rd & Hamilton Ave.
K	CLEVELAND STEAM GAUGE CO. Geo. J. Ruff, Gen. Mgr.-Pur. Agt.	1100 West 9th St.
G-JJ	CLEVELAND STEEL CO., THE Jas. C. Jones, Pres.; A. C. Baker, Asst. to Pres.; Walter S. Bowler, V. P. J. V. Cowling, Secty.; F. W. Throssell, Treas.; H. W. Christman, P. A. C. H. Kaufman, Gen. Supt. (Wks.)	Main Office Kirby Bldg. (Wks. E. 38th Street)
GG	CLEVELAND STEEL BARREL CO., THE J. M. Finney, Pres.-G. M.; A. Schroeder, V. P.-Fcty. Mgr.-Engr.; Charles Stiles, P. A.; H. F. Courtright, Supt.	9612 Meech Ave.
H-X	CLEVELAND STEEL CASTING CO. Geo. Balkwell, Prop.-Pur. Agt.; Stephen Balkwell, Prop.	Hubbard Ave. & E. 69
KK	CLEVELAND STEEL TOOL CO. J. F. Doolittle, Pres.; Frank Evarts, V. Pres.; R. J. Yenning, Treas.-Gen. Mgr.- Pur. Agt.; Geo. H. Knebusch, Supt.	660 E. 82nd St.
ZZ	CLEVELAND STRUCTURAL STEEL CO., John Rutkowski, Prop.-G. M.-P. A.	6600 Park Ave.
GGG	CLEVELAND SUPPLIES DIV., (American Stove Co.) Wm. E. Walton, Mgr.	4300 Hough Ave.
R	CLEVELAND SWITCHBOARD CO., THE F. C. Hafemeister, Pres.-G. M.; F. F. Hafemeister, Supt.-P. A.	2925 E. 79th St.
II-KK-DD	CLEVELAND TAP & MFG. CO., THE F. R. Scofield, Pres.; A. M. Worden, V. P.-Treas.-G. M.-P. A.; G. T. Bauder, Secty.; C. S. Sorenson, Fcty. Mgr.	1736 E. 22nd St.
BB-I-PP	CLEVELAND TOOL & SUPPLY CO., THE C. C. Coventry, Pres.-Treas.-G. M.; F. C. Wittich, V. P.-P. A.; Charles C. Wright, Secty.-Mgr. (Mchy. Dept.); H. E. Ruhf, Sales Mgr.; (Supply Dept.) M. J. Hutchinson, Asst. P. A.	1427 W. 6th St.
V	CLEVELAND TRACTOR CO., THE R. White, Pres.; A. F. Knobloch, V. P.-Wks. Mgr.; E. A. Callanan, P. A.	Euclid & Lamb Ave.
DD	CLEVELAND TRINIDAD PAVING CO., THE M. F. Bramley, Pres.-Treas.; C. X. Zimmerman, V.-Pres.; W. W. Robinson, V. Pres.; T. L. Gawne, V.-Pres.; M. F. Siegenthaler, Secy.; C. R. Cooper, Supt. and Pur. Agt. Equipment for Shop. (Shop.)	M. O. Old Arcade—Plant 3409 Trumbull Ave.
KK-II	CLEVELAND TWIST DRILL CO., THE J. D. Cox, Pres.-G. M.; George F. Kast, Treas.; E. G. Buckwell, Secty.; Col. E. C. Peck, Gen. Supt.; Wm. H. Kast, Prod. Mgr.; G. W. Kohlmetz, P. A.; Carl Schefft, Asst. Prod.; Charles Gruss, Gen. M. M.	1242 E. 49th St.
E-DD	CLEVELAND VALVE & MFG. CO. John V. Culliney, Pres.-Treas.-P. A.; James J. Korecky, V. P.-Supt.-Secty.	1421 E. 40th St.
BB-MM	CLEVELAND VIXEN TOOL COMPANY Frank Cox, Treas.-G. M.-Sales.	2185 E. 2nd St.
E-M-EE	CLEVELAND WELDING & MFG. CO., THE, OF THE HYDRAULIC STEEL CO. James H. Foster, Pres.; H. B. Bole, 1st V. P.; G. C. Brainard, V. P.; H. F. Pettie, Secty.; R. E. Hayslett, Treas.; H. W. Kranz, Gen. & Fcty. Mgr.; M. L. Williams, P. A.; Geo. Stolpman, Asst. P. A.	W. 117th & Berea Rd.
E-N-GG-QQ	CLEVELAND WIRE SPRING CO. E. S. Page, Pres.; F. Newman, V. P.; L. W. Campbell, S. T.-G. M.; C. H. Erickson, Gen. Supt.; O. C. Trautman, Ch. Engr.; A. Soden, P. A.	1281 E. 38th St. E. 40th & Harvard
T	CLEVELAND WORM & GEAR CO. John W. Hertzler, Pres.-G. M.; A. V. Cannon, V. P.; A. H. Clark, S.-T.; R. G. Anderson, Fcty. & Prod. Mgr.; J. A. Porter, Ch. Engr.; W. L. Bosley, P. A.	E. 40th St. & Payne Ave.



TWIST DRILL
COMPANY
CLEVELAND
NEW YORK-CHICAGO-LONDON

Reduce Drill Breakage In Your Shop.
"Cleveland" Sockets Will Do It.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
D-U	CLEVELAND WROUGHT PRODUCTS CO., THE Chas. L. Wasmer, Pres.; Carl E. Kramer, V. Pres.-Pur. Agt.; T. M. Hamley, Supt.	3590 W. 58th St
B	CLOUGH & WITT MCH. CO., THE Henry Pae, Pres.; J. D. Clough, V.-Pres.-Gen. Mgr.-Pur. Agt.; G. A. Weiss, Supt.	1740 Columbus Rd.
T	CLOYES GEAR WORKS R. T. Cloyes, Prop.	1630 Collamer Ave.
DD-C	CLYMOR MACHINE CO., THE E. M. Mohrman, Pres.-Pur. Agt.; E. S. Clymonts, Treas.	8500 Lake Ave.
BB-QQ	CLYMOUTS-MOHRMAN CO. E. M. Mohrman, Pres.-G. M.; E. S. Clymouts, V. P.-Treas.; J. E. Fenner, Secty.-P. A.	8500 Lake Ave.
DD-II	COBB, W. B. W. B. Cobb, Prop.	2935 Detroit Ave.
K	COCHRANE, J. A. BRASS MFG. CO., THE M. J. Koblitz, Treas.-Gen. Mgr.-Pur. Agt.; J. A. Cochrane, Supt.	1390 E. 41st St.
A-B-II-KK	COLBURN MACHINE TOOL CO. E. P. Breckinridge, Pres.; H. W. Breckenridge, V. P.-G. M.; W. E. Barrow, S. T.; F. F. Clarke, Ch. Engr.; A. A. Geck, Fcty. Mgr.; C. R. Williams, P. A.	1038 Ivanhoe Road
BB-QQ-BBB	COLBY-MERRILL CO., THE C. W. Colby, Pres.-G. M.; E. H. Goins, V. P.-Dist. Mgr. Sales; F. C. Gibbs, Secty.; C. O. Lasley, Treas.	Rose Bldg.
D-QQ	COLD GALVANIZING CO. Fred Grammes, Prop.	1813 Columbus Road
DD-F	COLLAMER MCH. WKS. E. Langford, Prop.	1630 Collamer Ave.
BB-JJ-G	COLONIAL STEEL CO. F. L. Stevenson, Dist. Mgr.	1104 Prospect Ave
E	COLUMBIA AXLE COMPANY W. R. Hopkins, Pres.; E. H. Parkhurst, V. P.-G. M.; B. F. Hopkins, Secty.-S. T.; R. J. Goldie, Fcty. Mgr.; R. E. Fries, Ch. Engr. Sales Mgr.; M. L. Jeffrey, Gen. Supt.; L. W. Cornell, P. A.; H. A. Leiden, Prod. Mgr.; A. F. Sinclair, M. M.	850 E. 72nd St.
D-II	COLUMBIA METAL STAMPING & DIE CO., THE F. C. Koch, Pres.-Treas.-G. M. A.; E. Koch, V. P.-Secty.-P. A.; Jos. Sharples, Gen. Supt.	1536 E. 49th St.
DD	COLUMBIA RUBBER MOLD CO., THE G. F. Langermeier, Pres.-Supt.; T. E. Fisher, S. T.-P. A.; F. H. Hrebek, V. P.	1948 Columbus Rd.
BB-LL	COLUMBIA STEEL & SHAFTING CO. E. C. Rock, Sec.-Mgr.; F. M. Maloney, Supt.	1210 E. 55th St.
BB-JJ	COLUMBIA TOOL STEEL CO., THE G. C. Beebe, Loc. Mgr. Sales.	1239 W. 9th St.
K-II	COLUMBIAN HARDWARE CO., THE I. T. Kahn, Pres.-G. M.; R. J. Dickey, V. P.-Fcty. Mgr.; O. O. Vrooman, Secty.; H. F. Seymour, Treas.; K. Davidson, Comptroller; F. W. Ream, P. A.; E. Watkins, Gen. Supt.; H. L. Schuman, M. M.; H. Hammink, Sales Mgr.	1290 E. 53rd St.
R	COMET BATTERY CO., THE Wm. Underwood, G. M.-P. A.	1362 E. 3rd St.
M	COMMERCIAL FORGINGS CO., THE W. Illingsworth, Pres.-P. A.; C. B. Ritchey, V. P.-Sales Mgr.; Geo. Mogg, Secty.; O. F. Elber, Treas.	3709 E. 91st St.
DD-II	COMMERCIAL GAUGE CO., THE Wm. L. Hamilton, Pres.; Carl Ewald, V. Pres.; A. H. Gerwin, Secy.-Treas.-P. A.	16215 Trafalgar Ave.
C	CONNELLY, D. BOILER CO., THE W. C. Connelly, Pres.-Treas.; L. E. Connelly, V.-Pres.-Secy.; C. E. Shafer, Supt.; D. C. Reagan, Pur. Agt.	Ivanhoe Rd. & N. Y. C. R. R.
	CONCOLIDATED IRON-STEEL MFG. CO., THE I. T. Kahn, Pres.-G. M.; H. F. Seymour, V. P.; George J. Lehman, Secty.; A. Tuteur, Treas.; K. Davidson, Comptroller; F. W. Ream, P. A.; R. J. Dickey, Fcty. Mgr.	1290 E. 53rd St.
R	COOK ELECT. HEATING CO., THE F. J. Cook, Pres.-G. M.	717 Frankfort Ave.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
R-L	COOLEE ENGINEERS, THE Claude H. Cook, Pres.-G. M.; C. Emmett Lewis, Secy.-Treas.; H. Jay Lewis, V. Pres.-Supt.-P. A.	4516 Superior Ave.
BB-I-PP	CO-OPERATIVE MCHY. CO., THE F. A. Maxwell, Pres.-G. M.	113 St. Clair Ave. N. E.
M-E	COOPER SPRING CO., THE J. C. Cooper, Pres.; B. Niels, V. Pres.; Chas. Harty, Pur. Agt.	Office Leader News Bldg—Plant 2220 Center Street
R	COOPER HEWITT ELECTRIC CO. S. H. Knapp, Dist. Sales Mgr.	Engineers Bldg. (Wks. Hoboken, N.J.)
BB-G	CORRUGATED BAR CO., INC. C. A. Young, Dist. Mgr.	Swetland Bldg. (Wks. Buffalo, N. Y.)
BB-S-V	COWAN TRUCK COMPANY P. H. Twing, Sales Mgr.	Plymouth Bldg
KK-II	COWLES TOOL COMPANY E. A. Cowles, Pres.-G. M.; H. S. Hunter, V. P.; R. B. Kraft, S. T.-P. A.; J. Birtwell, Fcty. Mgr.	2086 W. 110th St.
B	CREAM CONE MACHINE CO., THE J. W. Taylor, Pres., G. M.; C. R. Taylor, Secty.-P. A.	E. 59th & Hough Ave.
K	CRESCENT BRASS PRODUCTS CO., THE C. H. Hofrichter, Pres.; A. C. Hofrichter, V. Pres.-Pur. Agt.; W. R. Mardis, Secy.; E. Zeller, Treas.	8410 Lake Ave.
BB-R	CROCKER-WHEELER CO. B. D. Christian, D. Mgr.	Guardian Bldg.
X	CRUCIBLE STEEL CASTINGS CO., THE W. J. Shepard, Pres.; H. F. Tielke, Secty.; M. G. Tielke, Treas.-P. A.; H. L. Aiken, G. M.; W. Nachtigall, Gen. Supt.	Champlain & Canal Rd.
B-L	CURTIS, A. R. MFG. CO. Arthur E. Curtis, Supt.	6925 Aetna Road
BB-R	CUTLER HAMMER MFG. CO., THE A. G. Pierce, Dist. Mgr.; H. W. Eastwood, Sales Mgr.; F. H. Oberschmidt, Sales Engr.	Guardian Bldg.
C	CUYAHOGA BOILER WKS. CO., THE John Maher, Pres.-G. M.; J. M. Maher, V. P.-Supt.; H. W. Botten, Secty.-Treas.	1204 Main St.
D	CUYAHOGA METAL PRODUCTS CO., THE George R. Aitken, Pres.-G. M.-P. A.; George A. Scharer, Gen. Supt.	3354 Payne Ave.
DD-II	CUYAHOGA PARTS CO., THE Chas. Bellar, V. Pres.; Gen. Mgr.-Pur. Agt.; Wm. Lockart, Supt.	8810 Harvard Ave.
N-E	CUYAHOGA SPRING CO., THE John H. Van Uum, Pres.-Gen. Mgr. Fcty. Mgr.; Jno. A. Kling, V. P.; Harry F. Plagens, S. T.-P. A.-Supt.	10052 Berea Road
N	CYCLONE FENCE CO. J. H. Kinney, Dist. Mgr.; J. V. Morrissey, Fcty. Mgr.	1287 Marquette Rd. (Wks. Waukegan, Ill.)
BB-G-JJ	CYCLOPS STEEL CO. V. M. Wellman, Dist. Mgr.	1224 Oregon Ave.
DD-II	D & L MACHINE & MFG. CO., THE F. J. Ptak, Pres.-Supt.; H. Leek, G. M.-P. A.	1529 E. 49th St.
GGG	(DANGLER DIV.) AMER. STOVE COMPANY D. E. Dangler, G. M.; C. S. Dangler, Supt.; F. B. Dangler, P. A.; D. C. Rice, Asst. P. A.	5017 Perkins Ave.
S	DAMASCUS BRAKE BEAM CO., THE Information withheld	London Rd. & Nickel Plate R. R.
N	DANCYGER SAFETY PIN TICKET CO. Mrs. A. L. Newman, Pres.-Treas.; A. J. Newman, V. P.; M. G. Huster, Secty.-P. A.	4707 Detroit Ave.
DD-C	DARLING MACHINE COMPANY C. B. Darling, Prop.	1911 St. Clair Ave.
BB-FF	DAVIS-BOURNONVILLE CO. Hugh H. Dyar, Dist. Mgr.; C. A. Motz, Sales Engr.; R. A. Vaughen, Sales Rep.	1839 E. 13th Street.
DD-E	DAY PISTON COMPANY Wm. R. Day, Pres.-Supt.; C. E. Day, S. T.-P. A.	Harvard & E. 103rd St.
DD-II	DEAMUDE MACHINE CO. J. G. Deamude, Prop.-Supt.	1591 Columbus Rd.

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
DD-II-K	DELTA MACHINE & TOOL CO., THE H. A. Potting, Pres.-Treas.-G. M. Supt.; G. Doerk, V. P.; C. Doerk, Secty.;	1265 W. 2nd St.
A-K	DEMCO MCH. TOOL CO., THE A. Reutschi, Pres. P. A.	706 Frankfort Ave.
BB-I-UU	DICK, R. & J. CO., INC. J. K. Jewett, Loc. Mgr.	111 St. Clair Ave. N. E.
D-II	DICKEY-GRABLER WORKS (of The Banking Sav. & Credit System Co.) A. D. Kidwell, Pres.; F. Herman, V. P.; J. E. Mitchell, Secty.-G. M.; A. H. Dickey, Treas.; J. Jirka, Prod. & Fcty. Supt.; R. Alger, P. A.	W. 103rd & Madison
DD-E	DIEBOLD PRODUCTS CO., THE C. Birnbaum, Pres.-Treas.; E. J. Gutman, V. P.-G. M.-P. A.; H. Batsford, Prod. Mgr.; H. M. Thorburn, Asst. P. A.; John Benedict, Fcty. Mgr.	5337 St. Clair Ave.
BB-R	DIETZ ELECTRIC CO. J. T. Dietz, Prop.-G. M.	1243 Oregon Ave.
D	DILL MFG. CO., THE J. D. Williamson, Pres.-G. M.; E. F. Tobold, V. P.-Fcty. Mgr.; A. E. Bronson, Secty.; A. P. Williamson, Treas.-P. A.;	694 E. 82nd St.
R	DOMESTIC ELECTRIC CO., THE C. A. Duffner, Pres.-G. M.; W. H. Posse, Fcty. Mgr.; M. H. Spielman, Ch.-Eng. M. W. Phelps, P. A.	7223 St. Clair Ave.
U	DRAKE LOCK-NUT CO., THE	Stanton Ave. (See Natl. Screw & Tack Co.)
B	DRAKE PROCESS MACHRY. CO., THE W. H. Drake, Pres.-G. M.; Frank Harrington, Ch. Engr.; Wm. H. H. Mather, Gen. Supt.; E. C. Pletz, P. A.	2344 E. 105th St.
GG	DRAPER MFG. CO., THE C. T. Draper, Pres.-G. M.; W. C. Grosser, Ch. Engr.; J. G. Dummeback, P. A.	E. 91st & Crane Ave.
R-S	DREW ELECTRIC & MFG. CO., THE James H. Drew, Pres.; John D. Williams, Secy.-Treas.; Elmer Flynn, Gen. Mgr.; Thos. Roan, Pur. Agt.; Chas. Ritchie, Supt.	1679 Collamer Ave.
BB-P-Z	DREYER SALES & ENGR. CO. H. H. Dreyer, Dist. Mgr.	Plymouth Bldg. (Wks. Chicago, Ill.)
II-DD-L	DROP DIE & ENGINNERING CO., THE J. F. Rice, Pres.-Treas.-Sales; A. F. Kelly, V. P.; John Lowthian, Secty.-Fcty. Mgr.-G. M.	5606 Curtis Ave.
BB-OO	DUNTLEY-KING PNEUMATIC TOOL CO. J. C. Sague, Dist. Mgr.	1404 E. 9th St.
QQ	DUPLEX HANGER CO., THE I. T. Kahn, Pres.-G. M.; A. V. Cannon, S. T.; K. Davidsom, Comptroller; F. W. Ream, P. A.	1290 E. 53rd St.
OO-QQ	DUST RECOVERING & CONVEYING CO., THE F. L. Jorgensen, Pres.; G. A. Geiseler, V. P.; W. M. Ernst, Treas.; H. L. Jolley, Secty.; J. E. Washburn, J. H. Leech, Engrs.; R. Pelz, P. A.	2128 St. Clair Ave.
M	DYSON, JOSEPH & SONS James Jones, G. M.-Supt.	5125 St. Clair Ave.
M	EAGLE BOLT & FORGING CO., THE W. P. Young, Treas.-G. M.-P. A.; D. B. Young, Gen. Supt.	1435 E. 45th St.
E	EAGLE CARBURETOR CO., THE F. E. Rennebaum, Pres.; D. R. James, V. Pres.; G. S. McEachren, Secy.; E. B. Bartlett, Treas.-Pur. Agt.	11500 Madison Ave.
BB-II-KK	EASTERN MACHINE SCREW CORP., THE H. F. Wieler, Dist. Sales Mgr.	1894 Colonade Rd. (Wks. New Haven, Conn)
DD-II	EAST SHORE MACHINE PARTS CO. G. M. Gottchalt, G. M.-Supt.	835 E. 140th St.
E	EATON AXLE CO., THE C. J. Ochs, Gen. Mgr.; F. Weymouth, Fcty. Mgr.; Chas. Dalquist, Ch. Engr.; A. L. Kroesen, Prod. Mgr.; C. H. Hunt, Pur. Agt.; George Bitling, Sales Mgr.	E. 140th & N. Y. C. R. R.
X	EBERHARD MFG. CO., THE W. P. Champney, Pres.; Geo. B. Shepard, V. P.-Treas.; Geo. Woolarman, P. A.	2734 Tennyson Rd.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
S	ECLIPSE RAILWAY SUPPLY CO. R. Forwerd, Gen. Mgr.-Pur. Agt.	4822 Payne Ave.
Z	EDMONDS ELEVATOR CO., THE F. A. Edmonds, Pres.-G. M.-P. A.; H. H. Edmonds, Gen. Supt.	519 Champlain Ave.
BB-HH-I-E	EDWARDS, C. J. COMPANY, THE C. J. Edwards, Pres.; C. J. Perrier, Secty.; A. H. Heller, G. M.-Supt.	2004 St. Clair Ave.
R-S-Z	ELECTRIC CONTROLLER & MFG. CO. C. Pirtle, Pres.; E. F. Stratton, V. P.-Ch. Engr.-G. M. J. S. McKee, Fcty. Mgr.; P. C. Clark, S. T.; George Slater, Gen. Supt.; H. G. Schnell, Prod. Mgr.; F. R. Fishbach, Sales Mgr.; H. S. Richardson, Sales Engr.; J. H. Ellis, P. A.; W. Deike, Asst. P. A.	2698 E. 79th St.
R	ELECTRIC PRODUCTS CO., THE M. R. Barry, Pres.-G. M.	1725 Clarkstone Rd.
S	ELECTRIC RY. IMPROVEMENT CO., THE W. E. Huber, Pres.-G. M.; P. V. Sanker, P. A.; W. A. White, Supt.; C. A. Cadwell, Engr.	2070 E. 61st St.
G-JJ-LL	ELECTRIC STEEL & FORGE CO., THE James H. Foster, Pres.; D. W. Wells, V. P.-G. M.; C. R. Cross, Secty.; A. B. Smythe, Treas.; M. J. Madden, Ch. Engr.; Charles Swan, Gen. Supt.	6600 Grant Ave.
R	ELECTRIC VACUUM CLEANER CO., THE Chas. Queisser, Fcty. Mgr.; R. W. Secrist, Asst. Fcty. Mgr.; H. M. Richmond, P. A.	Ivanhoe Rd.
EE	ELECTRIC WELDING CO., THE H. E. Crawford, Pres.-G. M.-P. A.	2116 Superior Ave. N.W.
R	ELECTRICAL MFG. CO., THE F. T. Kovar, Pres. Gen. Mgr.; John B. Oviatt, V. Pres.; Joseph F. Jirka, Secy.-Treas.-Prod. Mgr.; G. L. Davis, Fcty. Mgr.; Ira J. Kermode, Pur. Agt.-Sales Mgr.; E. Bleutge, Asst. Pur. Agent.	4149 E. 79th St.
BB-JJ	ELLIOTT CO., THE K. A. Von Ladau, Dist. Mgr.	616 St. Clair Ave., N. E.
BB-R-OO	ELLIOTT ELECT. CO., THE M. C. Ripple, Pres. Treas. G. M.; E. J. Bonswor, Secty.-P. A.	813 Superior Ave. N. W.
R-S	ELWELL-PARKER ELECTRIC CO., THE M. S. Towson, Pres.; S. Q. Keurrish, Secty.; F. G. Heiss, Treas.; H. N. Parks, Fcty. Mgr.; F. N. Hogan, P. A.	4205 St. Clair Ave.
LL-JJ	ELYRIA IRON & STEEL CO., THE Hugh B. Wick, Pres.; Myron A. Wick, V. P.; Geo. F. White, Secty.-Treas.; J. T. Harmuth, Ch. Engr.; E. Falk, P. A.; H. Harvey, Supt.; Wm. West, Supt.; F. M. Scott, M. M.; W. T. Bentz, Sales Mgr.	232 E. 131st St.
K	EMPIRE BRASS MFG. CO., THE L. A. Deusch, Pres.-Gen. Mgr.; V. J. Mahler, V. Pres.; L. M. Collins, Secy.-Treas.; D. A. Leahy, Supt.-Pur. Agt.	10301 Berea Road
BB-I-PP	EMPIRE MACHINERY EXCH. CO., INC. F. F. Brodie, Pres.-Sales; M. E. Maher, V. P.; A. T. Miller, Secty.-P. A.; W. C. Werley, Treas.-Sales.	Newman-Stern Bldg.
RR	EMPIRE PLOW CO., THE M. S. Haas, Pres.; W. M. Haas, V. Pres.-Secy.-Treas.; H. I. Strasser, Pur. Agt.	3140 E. 65th St.
G-JJ	EMPIRE ROLLING MILL CO., THE C. G. Barkwill, Pres.; A. W. Ellenberger, V. P.; D. R. James, Secty.-Treas.; H. J. Tilton, Ch. Engr.-Fcty. Mgr. W. P. James-P. A.	Bessemer & C. & P. Ry.
D	ENAMEL PRODUCTS CO., THE George C. Johnson, Pres.; J. Foster, Jr., S. T. G. M.; F. P. Allen, P. A.; G. C. Swift, Gen. Supt.	Eddy Rd. & Taft Av.
F	ERIE PATTERN & MFG. CO. J. O. Pounds, Secty.-Sales; Geo. E. Barnes, Gen. Mgr.; Albert Stag, Supt.	3203 Lorain Ave.
BB-R-I-VV	ERNER ELECTRIC CO. C. T. McKinstry, Pres.-Treas.; Peter Yensen, Secty.; G. S. Milner, Gen. Mgr.; Warner Jones, J. A. Milner, Sales Mgrs.	1240 Ontario St.
DD-L-B	EUCLID MACHINE & ENGR. CO. A. C. Sneller, F. Sneller, Props.	1838 Noble Road

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
B	EUREKA MACHINE COMPANY Nina Sherrer, Prop.-Supt.	2610 Vega Ave.
DD-II	EXCELSIOR MCH. & TOOL CO., THE J. K. Nagy, Supt.	2609 E. 89th St.
U	F. P. SCREW CO., THE J. W. Fibley, Pres.-G. M.; Y. J. Hardlicka, Secty.-P. A.; Chas. M. Prell, Treas.	2921 E. 79th St.
BB-E	FAFNIR BEARING CO. E. B. Hand, Mgr.	Swetland Bldg. (Wks. New Britain, Conn.)
BB-I-A-B	FAIRBANKS, MORSE & CO. W. W. Cullen, Dist. Mgr.	1354 W. 9th St.
M-DD-II	FAIRMOUNT TOOL & FORGING CO., THE C. W. Yarham, S. T.-G. M.; L. A. Anthony, P. A.; Edw. Salter, Gen. Supt.	10611 Quincy Ave.
GGG-H-D-N	FANNER MFG. COMPANY J. R. Raible, Pres.; Sam H. Jacobs, V. P.-Sales Mgr.; J. Y. Brooks, S. T.; J. E. O'Brien, P. A.; Wm. C. Hopkins, Fdry.-Sales Mgr.; Sam H. Gibson, Gen. Supt.	Brookside Park.
K	FARNAN'S BRASS WORKS Cath. Farnan, Prop.; S. Resek, Gen. Mgr.; J. F. Madigan, Supt.; J. L. Rick, Pur. Agt.	1104 Center Ave.
BB-H	FEDERAL FDRY. & SUPPLY CO., THE R. Ditty, Pres.; L. H. Heyle, Secty.-Asst. Mgr.-P. A.; Chas. E. Farrell, Supt.	2639 E. 79th St.
T	FEDERAL GEAR CO., THE F. C. Clough, Pres.-G. M.; T. C. Kirkeby, Supt.	1754 E. 47th St.
SS-XX	FEDERAL MCH. PROD. CO., THE L. B. Green, Pres.; L. B. Tglaner, Secy.-Treas.-Pur. Agt.	2777 E. 53rd St.
BB-FF	FEDERAL MACHINE & WELDER CO. Fred C. Wilder, Dist. Mgr.	Leader-News Bldg. (Works, Warren, Ohio.)
B-DD	FELBER, J. B. VENDING MACH. CO. J. B. Felber, Prop.	5421 Magnet Av.
QQ-L	FERGUSON, H. K. CO., THE H. K. Ferguson, Pres.-Treas.-Sales; A. J. Hollingshead, V. P.-Gen. Supt.; H. S. Jacoby, Secty.-Ch. Engr. Sales.	6523 Euclid Ave.
S	FERREL BRAKE MFG. CO., THE J. R. Blakeslee, Pres.; C. E. Curtiss, V. P.; H. D. Heman, S. T.-P. A.	Cassius Ave.
D	FERRO ENAMELING CO., THE H. D. Cushman, Pres.; H. C. Luebbert, V. P.-Supt.; C. M. Horn, Secty.; R. L. Williams, Treas.; J. Henry, G. M.-P. A.	4150 E. 56th St.
DD-X-D	FERRO MACHINE & FDRY. CO., THE Edw. W. Beach, Pres.-G. M.; Jas. F. Leitch, V. P.-Treas.; Wm. D. Sweeney, Secty.; A. G. Hopcraft, P. A.; Jno. T. Stoney, Fcty. Mgr.; S. J. Ruddock, Asst. P. A.; R. E. Stoney, Supt. Fdry.; C. C. Penrose, Prod. Mgr.; H. Myers, Supt. Mch. H. A. Dieters, M. M.	3155 E. 66th St.
U	FERRY CAP & SET SCREW CO., THE H. D. North, Secty.-P. A.; Elmer Green, Gen. Supt.	2151 Scranton Rd.
BB-G-JJ	FIRTH-STERLING STEEL CO., E. S. Jackman & Co., Rep. M. E. Burkemer.	333 Frankfort Ave.
E	FISHER BODY OHIO CO., THE F. J. Fisher, Pres.; C. T. Fisher, V. Pres.; A. Mendelson, Secy.; L. Mendelson, Treas.; E. F. Fisher, Resident-Mgr.; L. R. Scafe, Comptroller; H. R. Wittkowsky, Ch. Engr.; E. W. Fox, Prod. Mgr.; G. H. Stanseell, Master Mech.; C. A. Crusoe, Pur. Agt. Jos. Greiner, Asst. Pur. Agt.	E. 140th & Coit Rd.
BB-G-JJ-LL	FITZSIMMONS CO., THE Archie Loyer, Sales; Clyde E. Lowe, Sales.	Hippodrome Bldg. (Wks. Youngstown, O)
A-B-DD	FOOTE-BURT CO., THE A. W. Foote, Pres.; G. E. Randles, V. P.; S. G. Burt, Secty.; F. Doane, G. M.; R. Hazelton, Gen. Supt.; W. Arring, P. A.	13000 St. Clair Ave.
E-D-DD	FORD-CLARK COMPANY THE A. E. Gorris, Pres.; E. C. Williams, V. P.; K. Bracken, S. T.; J. S. Hemmeter, G. M. & Prod.; G. K. Saville, Sales Mgr.; F. C. Graef, P. A.	3125 Perkins Av.
H-X-QQ	FOREST CITY FDY. & MFG. CO., THE Albert Gerdum, Pres.; P. J. Strangward, V. Pres.; Chas. F. Seelbach, Jr., Secy.-Treas.; A. Kolke, Pur. Agt.	1220 Main Ave.

THE MOTT & MERRYWEATHER MACHINERY CO.

Cleveland
Cincinnati
Detroit
Pittsburgh

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
ZZ	FOREST CITY STEEL & IRON CO. C. B. Ellemwood, Pres.-Treas.; C. N. Eluker, V. Pres.; F. Clausen, Secy.; F. M. Crosier, Ch. Engr.; L. S. McKee, P. A.	1500 W. 110th St.
BB-X	FORT PITT STEEL CASTING CO. Geo. I. Allen, Dist. Mgr.	Kirby Bldg. (Wks. McKeesport, Pa.)
U	FOSTER BOLT & NUT CO., THE A. M. Foster, Pres.-P. A.; J. F. Donahue, V. P.-G. M.; A. L. Empey, S. T.; John Hartlieb, Gen Supt.	3556 E. 72nd St.
H	FOUNDRY EQUIPMENT CO., THE Julius Tuteur, Pres.; F. A. Coleman, V. P.-G. M.; C. A. Barnett, Treas.; Fred Gensler, P. A.; L. A. Ambrose, Ch. Engr.; Harry Sidnall, Gen. Supt.	1831 Columbus Rd.
D-DD-II	FOURTH CITY MFG. CO. W. Anselm, Pres.; A. Kausek, S. T.-G. M.-Supt.-P. A.	7019 St. Clair Ave.
R	FRANCE MFG. CO., THE L. E. France, Pres.; M. C. France, V. P.; L. A. Corlett, S. T.-P. A.	10360 Berea Rd.
BB-R	FUERST-FRIEDMAN CO., THE A. Friedman, Pres.-Gen. Mgr.; A. F. Gross, Secty.-Treas.; O. H. Steiner, P. A.	1239-57 W. 3rd St.
H-X-DD	FULTON FDRY. & MACH. CO., THE Carl Mead, Pres.-Treas.; H. B. Spelman, V. P.-Secy.; H. Kennedy, Supt.	E. 75th & Morgan Ave.
E	GABRIEL MFG. COMPANY, THE W. Sawyer, G. M.-Fcty.; D. Benjamin, P. A.	1407 E. 40th St.
D-QQ	GALVANIZED PRODUCTS CO., INC. Thos. Ferry, Pres.; Thos. McManus, V. P.-Secty.; Thos. Bolton, Treas.-P. A.	8410 Lake Ave.
R	GALVO COMPANY, THE Jos. A. Klipec, Pres.; Max A. Fishel, V. P.; J. P. Burger, S. T.-Ch. Engr.-G. M.; Wm. Lawrence, Fcty. Mgr.; L. A. Gaines, Sales Mgr.	1813 Columbus Rd.
BB-G-N-JJ-LL	GARDNER, B. M. CO., THE B. M. Gardner, P. A.-Pres.	Bangor Bldg.
DD-II	GARDNER TAP & DIE CO., THE F. W. Wood, Pres.; J. M. Gardner, V. Pres.; D. S. Miller, Secy.; R. H. Smart, Treas.; C. B. McCormick, Fcty. Mgr.; A. J. Schwister, P. A.	1876 E. 18th St.
B-C	GAS MACHINERY CO., THE C. H. Prentz, V. P.-G. M.; A. M. Smith, Treas.-P. A.; R. Gleason, Ch. Engr.; H. J. Mesker, Gen. Supt. (Wks.)	1900 Euclid Ave. (Wks. Waterloo Rd.)
AAA	GEBAUER CHEMICAL CO., THE Chas. L. Gebauer, Pres.-Treas.-P. A.; Alfred Littauer, V. P.-G. M.; T. Ehrke, Secty.	Office Bangor Bldg. (Wks. 9408 St. Catherin St.)
R	GEIER, P. A. COMPANY, THE (PLT-1) P. A. Geier, Pres.-G. M.; F. J. Gotttron, Secty.; O. C. Willis, Ch. Engr.; Paul Smith, P. A.; E. R. Kreuger, Gen. Supt.	5112 St. Clair Ave.
A-B-II-DD-W-W	GEIER, P. A. COMPANY, THE (PLT-2) J. W. Kimball, Gen. Mgr.-Supt. (See Plant I)	E. 105th & Elk Ave.
H-X	GENERAL BRONZE FDY. CO., THE C. R. Hayes, Gen. Mgr.-Pur. Agt.; C. L. Beatty, Supt.	1275 E. 54th St.
AAA	GENERAL CHEMICAL COMPANY Thos. P. Howell, Gen. Mgr.	Main Office Citizens Bldg. (Wks. Warner Rd.)
GENERAL ELECTRIC COMPANY:		
Plants and Divisions of the NATIONAL LAMP WORKS OF GENERAL ELECTRIC CO.:		
The words "National Lamp Works of General Electric Co." should be placed after the name of the Divisions in addressing mail.		
The words "Of General Electric Co." should be placed after the name of the Works in addressing mail.		
The following are the Departments and Laboratories which are located at Nela Park:		
Lamp Facilities Laboratory—P. J. Pritchard;		
Engineering Dept.—S. E. Doane, Ch.-Engr.; G. S. Merrill, Asst. to the Ch.-Engr.;		
W. M. Skiff, Manager; R. W. Shenton, Asst. Mgr.; H. H. Magdsick, Commercial Engr. Section;		
M. D. Cooper, Economics Section; Ward Harrison, Illuminating Engr. Section;		
C. L. Dows, Research Section; J. R. Colville, Technical Publicity Section;		
H. E. Failes, Testing Section; J. A. Savage,		
Operating Activities:		
Lamp Development Laboratory—J. E. Randall, Consulting Engr.; W. L. Enfield, Mgr.		
Lamp Factory Equipment Dept.—Equipment Development Dept.—J. F. Donovan, Mgr.		
C. C. Gale.		



The Veeder Mfg. Co.
Hub-Odometers and Industrial Counters

1814 E. 63rd Street

WELDING, HEAVY
MACHINERY, PARTS
BRAZING AND
CUTTING

THE C. P. HESSMER COMPANY

CLEVELAND, OHIO

Work Called for and Delivered
Prompt Service and Guaranteed Work
THE GUARANTEE WELDING CO.

EXPERT
AUTOMOBILE
REPAIRS

RANDOLPH 6185

Welding of All
Automobile Parts.
Frame and Axle
Straightening

J. C. SAGUE

Pneumatic and Electric Tools and Accessories

KING MO-LYB-DEN-UM "Sleeve" Valve Riveting Hammers, Chipping and Calking Hammers, Rivet Cutters, Sand Rammers and Holders-On **"DUNTLEY-KING"** Electric Drills; Portable Bench and Tool Post Grinders; Rivet Sets, Clips, Pistons, Chisel Blanks, Air Hose, Couplings, Nipples, Hose Clamp Tools, Reducing Bushings and all Pneumatic and Electric Tool Accessories. Every part of **KING** Pneumatic Hammers is made of **MO-LYB-DEN-UM** steel. Four times the ordinary life of pneumatic hammers is the result. Hits more blows per minute and more pounds per blow than any other hammer made. Order a **KING** Hammer on trial today and let it convince you of its superiority. Prompt delivery made from stock by the time-tested **"SAGUE SERVICE."**

"ELIMINATE YOUR PNEUMATIC TOOL UPKEEP COSTS."

1404 EAST 9th ST.

CLEVELAND, OHIO

We dismantle, move and erect Machinery, Motors, Shifting and Complete Factory Equipment

WE INSTALL
ELEVATING AND CONVEYING SYSTEMS

We Build Benches, Racks, Platforms and Partitions. Factory Carpenter Work

Contractors
Millwrights



Movers
Erectors

THE VALLEY CONTRACTING CO.

1900 DENISON AVENUE
CLEVELAND, O.

"Day and Night Service"

LINCOLN 4409

Kenton Industrially

The Chamber of Commerce will at any time be glad and willing to furnish information in regard to the industrial situation and possibilities of Kenton.

Three good railroads, a favorable labor supply, diversified industry and agriculture, all tend to create a prosperous and productive condition. The Harding Highway, a hard surface road across the state, and the Toledo-Columbus main pike, also a hard surface route, gives unusual road transportation facilities. More complete information available at Kenton Chamber of Commerce.

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

OHIO
SALES
OFFICE



MORSE DRIVES



ENGINEERS
BUILDING
CLEVELAND

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
GENERAL ELECTRIC CO. (Continued)		
	Chemical Laboratory—J. G. Wild.	
	Mechanical Laboratory—J. T. Fagan.	
	Glass Technology Dept.—W. M. Clark.	
	Commercial Development Dept.—C. W. Bender.	
	Research Dept.—Dr. E. P. Hyde, Director of Research; F. E. Cady, Manager.	
	Nela Research Laboratories—Laboratory of Pure Science—Dr. E. F. Nichols, Director of Pure Science	
	Laboratory of Applied Science—M. Luckiesh, Director of Applied Science.	
	Publicity Dept.—P. B. Zimmerman.	
	The following Departments operate as Economizing Depts.:	
	Purchasing Dept.—F. P. Harris; J. P. Seelig.	
	Transportation Dept.—H. N. Sibbald.	
	Standardizing Dept.—F. H. Blackburn.	
	Plant Engineering Dept.—E. J. Edwards.	
	Realty Department—E. Irving.	
	Nela Press Dept.—W. D. Frank.	
	Manufacturing Divisions at Nela Park:	
	Nela Lamp Division—P. J. Pritchard.	
	Large Lamp Manufacturing Dept.—M. L. Sloan.	
	Operating Departments at Nela Park:	
	Administration Department—F. S. Terry, Manager; B. G. Tremaine, Manager;	
	J. E. Kewley, Asst. Mgr.	
	General Manufacturing Dept.—W. H. Roberts, Gen. Mgr. of Wks.	
	Statistical Dept.—A. H. Stricker.	
	Industrial Relations Dept.—Dr. Charles A. Eaton.	
	Safety Dept.—M. R. Marshall.	
	Medical Dept.—Dr. R. W. Elliott.	
	Glass Manufacturing Dept.—E. O. Cross.	
	Bulb and Tubing Dept.—H. M. Arters.	
	Treasury Department—J. M. See.	
	Credit Dept.—T. K. Quinn.	
	Miniature Lamp Manufacturing Dept.—W. T. L. Cogger.	
	Manufacturing Divisions at East 45th St. Plant:	
	Cleveland Mazda Lamp Div.—D. P. Wright.	
	Cleveland Carbon Lamp Div.—G. A. Goerss.	
	Cleveland Miniature Lamp Div.—W. H. Stiles.	
	Cleveland Wire Div.—B. L. Benbow.	
	Cleveland Carbon Filament Div.—G. A. Goerss.	
	Developing Departments at East 152nd St. Plant:	
	Glass Technology Dept.—W. M. Clark.	
	Glass Machine Dept.—C. A. Brown.	
	Manufacturing Divisions at East 152nd St. Plant.	
	Pitney Glass Div.—Adelbert Graham (Send all mail to Bulb & Tubing Dept.—Nela Park)	
	Lamp Equipment Div.—C. P. Gochenaur.	
	Miniature Bulb Div.—W. W. Kirk.	
	Welds Division—W. D. Bumstead.	
BB-S-SS-P	GENERAL EQUIPMENT CO., INC.	Ulmer Bldg.
	T. M. Downing, Dist. Mgr.; R. S. West, Sales Rep.	
F	GENERAL MODEL & PATTERN CO., THE	1402 E. 55th St.
	C. H. Jansen, Pres.—G. M.-P. A.	
BB-I-AAA	GENERAL SUPPLY CO., THE	1314 St. Clair Ave.
	C. F. Buescher, Pres.; E. C. Peck, V. P.; F. W. Buescher, Secty.—G. M.-P. A.;	
	Geo. H. Miller, Treas.	
D	GEOMETRIC STAMPING CO., THE	221 E. 131st St.
	D. R. Jones, Pres.; G. W. Jones, V. P.—G. M.; H. S. Whiteway, Fcty. Mgr.—P. A.	
A-B-MM	GERLACH, PETER CO., THE	1708 Columbus Rd.
	R. P. Gerlach, Pres.—G. M.; A. J. Marnil—P. A.	
AAA	GERSON-STEWART CORP., THE	1276 W. 3rd St.
	L. H. Gerson, Pres.—Treas.—G. M.; W. M. Haas, V. P.; D. G. Gerson, Secty.	
G-JJ-LL	GIBSON & PRICE COMPANY	Main Office Swetland Bldg. (Wks. 1786 Columbus Rd.)
	Wm. A. Price, G. M.; C. L. V. Evans, Asst. Mgr.	
XX-C	GLASS COATING CO., THE	Bliss Road
	F. W. Vilmar, Pres.—Gen. Mgr.; H. P. Boggis, Pur. Agt.	
K	GLAUBER BRASS MFG. CO.	Platt Ave. & 79th St.
	M. H. Glauber, Prop.; A. R. Fischer, Gen. Mgr.—Pur. Agt.	

WELDON TOOLS

WEL-DON Double End Tools

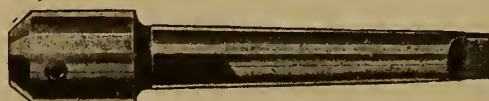


Remember?

In school days, how handy it was to have your pencil sharpened at both ends? Wel-don Double-End Tools are built that way--so you can "change ends."

Expense—

They save on both initial and maintenance costs. The Wel-don Holder fits the spindle bore and Wel-don Double-End Tools fit the holder.



Details and Prices sent on Request.

THE WELDON TOOL COMPANY

321 Frankfort Avenue, N. W.

Cleveland, Ohio

U. S. A.

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
K	GLOBE BRASS MFG. CO.; THE H. F. Schroeder, Pres.-Treas.; Joseph Irr, V. Pres.; H. F. Albers, Secy.-P. A.	5532 Perkins Ave.
D-GG-EE	GLOBE MACHINE & STAMPING CO., THE D. S. Michelsen, Pres.-G. M.; E. Panek, Ch. Engr.; E. Hammersmith, P. A.; R. R. Root, Gen. Supt.; H. C. Nelson, Sales Mgr.	1250 W. 76th St.
BB-I-R-B	GLOR, W. J. (Prop)	1338 St. Clair Ave.
DD	GOETZ, L. N. MACHINE CO., THE L. N. Goetz, Pres.-Supt.	2112 Superior Ave. N. W.
D-H-DD	GORDON PROPELLER & MFG. CO., INC. F. J. Hemler, Pres.; J. O. Smith, V. P.-G. M.-P. A.; F. C. Senick, S. T.	9001 Desmond Ave.
H-K-X	GRABLER MFG. CO., THE E. Rosenfeld, Pres.; Sidney Rosenfeld, V. Pres.; Chas. Rosenfeld, 2nd V. Pres.; W. S. Bayer, Secy.-Pur. Agt.; M. C. Rosenfeld, Treas.; F. W. McCabe, Supt.	6565 Broadway
T-E	GRANT-LEES GEAR CO., THE R. Ferguson, Pres.-G. M.; F. E. Simmons, V. P. Fcty. Mgr.; B. S. Cochran, Treas.; G. A. Groetzing, Ch. Engr.; J. Kreusler, Asst. Fcty. Mgr.; E. W. Hyde, Secty.-P. A	2365 E. 69th St.
E	GRANT MOTOR CAR CORP. D. A. Shaw, Pres. Fcty. Mgr.; Geo. C. Hubbs, V. P.-G. M.; W. R. Green, Secty.; F. S. Den- neen, Treas.; J. M. Howe, Ch. Engr.; G. C. Stark- weather, P. A.; D. K. Parker, Asst. P. A.	Coit Rd. & Kirby Ave.
AAA	GRASSELLI CHEMICAL CO., THE J. H. Dunbar, G. M.; C. J. Kearns, P. A.; Henry Gronemeyer, Engr.; E. Nesbit, Engr.	Guardian Bldg.
BB-I-UU	GRATON & KNIGHT MFG. CO. J. D. Thompson, Dist. Mgr.	1608 W. 3rd St.
U	GRAVITY CARBURETOR CO., THE O. H. Prochaska, Pres.; Wm. Fahey, V. P.; F. E. Koncana, Secty.-Treas.-P. A.	3062 E. 93rd St.
EE	GREAT LAKES WELDING CO., THE V. R. Holt, Pres.-Treas.-G. M.; C. B. Gilmore, V. P.; B. I. Holt, Secty.	937 West St., N. W.
BB-A-C-NN	GRISCOM-RUSSELL CO., THE M. G. Limbach, Loc. Mgr.	Hippodrome Bldg. (Wks. Massillon, Ohio.)
EE	GUARANTEE WELDING CO., THE Chas. P. Hessmer, Pres.-Gen. Mgr.-P. A.; Chas. Wolanczyk, V. Pres.; J. G. Eskra, Secy.	1814 E. 63rd St.
K	GUARDIAN GAS APPLIANCE CO., THE F. A. Neiberding, Pres.-G. M.-Supt.-Pur. Agt.	3409 Superior Ave.
E-D	GUIDE MOTOR LAMP MFG. CO., THE H. J. Monson, Pres.-G. M.; J. M. Shallenberger, V. P.; E. M. Spelman, Secty.; J. D. Kauffman, Treas.; F. E. S'oemaker, P. A.; C. A. Michel, Ch. Engr.; B. Hengst, Fcty. Mgr.; N. M. Ross, Production; C. E. Allen, Gen. Supt.	2130 W. 110th St.
BB-E	GURNEY BALL BEARING CO. F. R. Wren, Dist. Mgr.	Kirby Bldg.
B-DD-II	H. & K. TOOL CO., THE J. C. Reasner, Secty.; H. Kreikenbohm, Treas.-Supt.-P. A.	520 Prospect Ave. N. W
DD-II	HAHN MFG. COMPANY E. B. Hahn, Prop.-Supt.-P. A.	5332 Hamilton Av.
BB-JJ	HALCOMB STEEL CO., THE J. F. Kirwan, Br. Mgr.	1274 Ontario St. N. W.
BB-III	HAMILTON AUTOGRAPHIC REGISTER COMPANY J. R. Berry, Dist. Mgr.	Hippodrome Bldg.
A-DD-B	HAMMOND MFG. CO., THE C. W. Allen, Pres.-G. M.-P. A.; W. D. Buss, Gen. Supt.	6549 Carnegie Ave.
H-X	HAMMOND METAL PRODUCTS CO., THE H. R. Hammond, Pres.-Pur. Agt.; R. E. Westervelt, V. Pres.; D. J. Needham, Secy.-Treas.	2703 Orange Ave.
BB-JJ	HAMMOND STEEL CO., INC. E. W. Saunders, Dist. Mgr.	Engineers Bldg.
G	HANNA, M. A. COMPANY, THE Firm Members: H. M. Hanna, Jr.; L. C. Hanna, Jr.; Mathews Andrews; F. B. Richards R. F. Grant; Wm. Collins; J. D. Ireland; L. E. Dunham, Dir. of Purchases.	Gen. Office, Leader-News Bldg.

THE INDUSTRIAL MACHINE CO.

2160 SUPERIOR AVENUE
CLEVELAND, OHIO

TOOLS AND
FIXTURES

Estimates Promptly Furnished

SPECIAL MACHINERY
AND PARTS

"Climax" Cord Disc Coupling

The shock absorbing qualities of this fabric-cord Coupling are very Pronounced. It reduces the shock from 500 to 1.

Flexibility—Compensates for all direct or angular misalignment.

Runs silently and does not require lubricant.

Ideally adapted for connecting, Electric Units Hydraulic, Steam Turbines, Crushing, Printing Machinery and enumerable other applications.



ELIMINATES NOISE

It is much lighter than an mechanical coupling and therefore admirably adapted for **High-Speed** where balance is of great importance.

Increases efficiency on the following:

Power Transmission Machinery, Connecting-Units, Line-Shafting, Gears, Pulley-Clutches, etc.

No Metal contact therefore is a perfect insulator.

Simplicity of design therefore quickly installed.

THE CLIMAX MOTOR DEVICES CO.

CHAGRIN FALLS, OHIO

H. A. POTTING, *President-Treasurer*

G. DOERK, *Vice President*

C. DOERK, *Secretary*

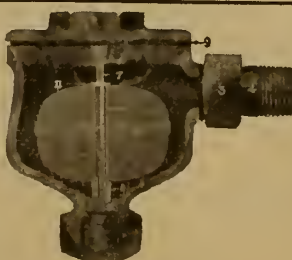
The Delta Machine & Tool Company

1265 WEST SECOND STREET

MAIN 6694

CLEVELAND, OHIO

Tools Jigs Fixtures
Punches Dies
Special Machinery
or Production Work



MANUFACTURERS OF
HYDRO
Radiator Steam Traps

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

Who?

Est. 1906

HIGH CLASS EMPLOYMENT SERVICE

INTERSTATE BUSINESS EXCHANGE

Est. 1906

FOR

Executives, Engineers,
Draftsmen, Salesmen,
Office Men and Women

MAIN 3629
658 ROSE BUILDING
CLEVELAND

CLEVELAND, CUYAHOGA COUNTY, OHIO		
Class	Firm and Personnel	Address
BB-OO	HANNIFIN MFG. COMPANY C. I. Cartwright, Dist. Mgr.	Bangor Bldg.
K	HANSEN MFG. CO., THE W. A. Gilliland, Secy.	1786 E. 27th St.
BB-XX	HARBISON-WALKER REFRACTORIES CO. H. G. Moore, Dist. Mgr.	Kirby Bldg.
BB-NN	HARKINS, ROBT. R. PUMPING MCH. CO. Robt. R. Harkins, Gen. Mgr.	2179 E. 18th St.
B	HARRIS AUTOMATIC PRESS CO. E. G. Kirkham, Pres.-G. M.; C. H. Harold, Ch. Engr.; P. H. Miller, P. A.; H. B. Bly, Gen. Supt.	4510 E. 71st St.
FF-BBB	HARRIS CALORIFIC COMPANY J. B. Hull, Pres.; John Harris, V. P.-G. M.-P. A.; G. B. Harris, S. T.	2828 Washington Ave.
X-H	HARSCH, JOHN, BRONZE & FDRY. CO., THE John Harsch, Pres.-Gen. Supt.; Harry Harsch, V. P.-Treas.-G. M.-P. A.; C. A. Colvin, Secty.; I. R. Disbro, Ch. Engr.	W. 116th & Madison Ave.
AAA	HARSHAW FULLER & GOODWIN CO., THE W. A. Harshaw, Pres.; R. L. Fuller, V. Pres.; R. S. Wensley, Secy.; J. A. McGean, Treas.; Al Stark, V. Pres.-Ch. Engr.; Jas. A. Doolittle, Pur. Agt.	Hanna Bldg.
A-II	HART MFG. COMPANY, THE L. F. Hart, Pres.-G. M.-P. A.	2319 E. 20th St.
B	HARVARD AUTOMATIC MCH. CO. George W. Heene, Prop.-Supt.	7803 Madison Ave.
BB-Z	HAUGHTON ELEVATOR & MACH. CO., THE H. C. Seipp, Jr., Sales Rep.	1466 St. Clair Ave. (Wks. Toledo, O.)
QQ-ZZ	HAUSERMAN, E. F. & CO., THE E. F. Hauserman, Pres.; R. A. Hauserman, Gen. Supt. (Wks.); L. D. Mowery, Engr.) E. R. Smith, Engr.; I. C. Crumley, P. A.	1729 E. 22nd St.
BB-I-PP	HAYDEN SUPPLY COMPANY E. W. Hayden, V. P.-Secty. Sales.	1211 St. Clair Ave. N. E.
BB-S	HAYES EQUIPMENT CO., THE J. J. Hayes, Pres.-G. M.	Natl Bldg.
BB-JJ	HAYNES STELLITE CO. J. S. Hoffman, Dist. Mgr.	4503 Euclid Ave. (Wks. Kokomo, Ind.)
BB-AA-A	HEALD MACHINE CO., THE T. N. Corlette, Dist. Mgr. Sales.	Engineers Bldg.
B-DD	HENDRICKSON MACHINE CO., THE J. H. Hendrickson, G. M.-Supt.-P. A.	1310 E. 14th St.
BB-M	HENRY & ALLEN, INC. D. S. Tucker, Dist. Mgr.	Natl. Bldg.
H-X-QQ	HENRY FURNACE & FDRY. CO., THE T. E. Henry, Pres.; E. S. Moncrief, V. P.; M. L. Spackman, Secty.-Gen. Supt.; D. H. Rickart, Treas.-P. A.	825 Long Ave.
BB-M-MM-LL	HEPPENSTALL FORGE & KNIFE CO. George I. Allen, Dist. Sales Mgr.	Kirby Bldg. (Wks. Pittsburgh, Pa.)
M-S	HERCULES HOOPER CAR WRENCH CO. F. Du Charms, Pres.-G. M.-P. A.; W. G. Locke, Secty.-Supt.	2073 W. 50th St.
L-AAA	HERRON, JAMES H. CO., THE James H. Herron, Pres.-G. M.	1360 W. 3rd St.
R	HERTNER ELEC. & MFG. CO. C. C. Cookingham, Pres.; John Hertner, V. P.-Treas.; Harry Cookington, Sec.-P. A.	1905 W. 112th St.
BB-E	HESS-BRIGHT MFG. CO. W. F. Temple, Dist. Mgr.	Guardian Bldg.
BB-I-PP	HESS-SCHENCK COMPANY, THE C. N. Hess, Pres.-G. M.; K. I. Cowin, S. T.	801 St. Clair Ave. N. E.
BB-DDD-FFF	C. P. HESSMER CO., THE Chas. P. Hessmer, Pres.-Gen. Mgr.-P. A.; Chas. Wolanczyk, V. Pres.; J. G. Eskra, Secy.	1814 E. 63rd St.

W. J. KING

B. W. KING

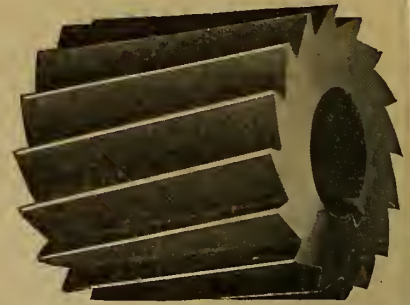
King Tool Grinding Co.

*Recutting Milling Cutters and Hardened Tools
Without Annealing — Special Grinding*

OFFICE AND WORKS:

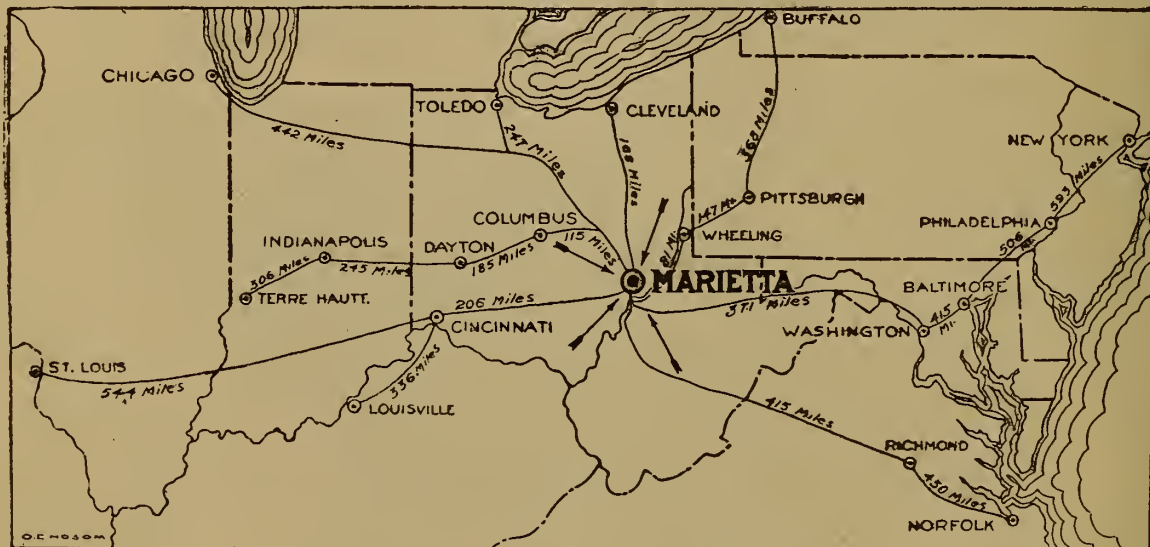
418 Prospect Ave. N. W.

CLEVELAND, OHIO



AFTER REGROUND

MARIETTA HAS RAILROAD, RIVER, INTERURBAN AND GOOD ROADS TRANSPORTATION FACILITIES



The ideal location for manufacturing.
The central point for raw material and
distribution.—For information write

MARIETTA CHAMBER OF COMMERCE---Marietta, O.

Our Motto Is—HONESTY AND ACCURACY

We solicit your patronage for the future.

We manufacture DIES—LAMINATION DIES—SHEET METAL STAMPINGS.

Our aim is to have satisfied customers.

PROMPTNESS—ACCURACY—REASONABLE PRICES.

VARIETY MACHINE & STAMPING CO.

OTTO C. KERNSPECHT, Pres. Engr.

BELL, Lincoln 4447-J

3404 Tate Ave.

CLEVELAND, OHIO

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
BB-YY	HEWITT RUBBER CO., THE C. K. Sheridan, Dist Mgr.	Leader News Bldg. (Wks. Buffalo, N. Y.)
FFF	HICKOK ELECTRICAL INSTRUMENT CO., THE R. D. Hickok, Pres.-Treas.; M. E. Schultz, V. Pres.; W. H. Eberly, Secy.-Pur. Agt.; H. A. Kinsey, Asst. Secy.	10514 Dupont Ave.
Y-X-B	HILL CLUTCH CO., THE J. B. Perkins, Pres.; Frank B. Carpenter, Secy.; Milo G. Firestone, Treas.; H. J. Smith, G. M.; Fcty. Mgr., Ch. Engr.; E. A. Smith, Sales Engr.; Hunter Morrison, Sales Mgr.; C. H. Kathe, P. A.; H. F. Corrigan, Sales Rep.	Breakwater Ave. & W. 65th
F-X-BB-H-B	HINES PATTERN & MFG. CO. (Formerly Madison Pattern Wks.) J. F. Hines, Pres.-G. M.-Supt.; R. G. Adler, Secty.-P. A.	10106 Detroit Ave.
DD-II	HITCHCOCK TOOL & DIE CO. F. Hitchcock, Pres.-G. M.; G. Hutchinson, S. T.-P. A.; Jos. Federkiel, Gen. Supt.	232 St. Clair Ave. N. E.
BB-A-II	HOEFER MFG. COMPANY C. I. Cartwright, D st. Mgr.	Bangor Bldg. (Wks. Freeport, Ill.)
X	HOFFMAN BRONZE & ALUM. CASTINGS CO. R. S. Hoffman, Prop.-Supt.-P. A.	992 Addison Rd.
K	HOHLFELDER, F. CO., THE A. W. Ellenberger, Prop.-G. M.; M. Schwartz, P. A.	1197 W. 67th St.
D-E	HOLAN METAL PRODUCTS CO. Frank Humel, G. M.; E. Yeager, P. A.; W. Scholl, Fcty. Mgr.	4011 Clark Co.
S	HOLLAND TROLLEY SUPPLY CO. F. Cole, Pres.-G. M.-P. A.; R. Diehl, Gen. Supt.	1623 E. 43rd St.
R	HOMER COMMUTATOR CO., THE Fred J. Baird, Pres.-Treas.; C. B. Keck, V. P.-G. M.; J. J. Hale, Secy.; A. Grob, Fcty. Mgr.	4748 Hough Ave.
D-DD	HOMEYER MACHINE PRODUCTS & MFG. CO. C. W. Homeyer, Prop.-Supt.	1555 Columbus Rd.
T	HORSBURG & SCOTT CO., THE Frank Horsburg, Pres.; R. G. Horsburg, G. M.-Supt.; E. J. Noble, Ch. Engr.; J. J. Small, P. A.	5114 Hamilton Ave.
BB-H-X	HUBBARD STEEL FDY. CO. W. R. McDonough, Sales Rep.	Natl. Bldg.
BB-A-NN-C	HUGHES-LIMBACH CO., THE M. G. Limbach, Pres.-G. M.-P. A.	Hippodrome Bldg.
D-EE-DD	HUNT & DORMAN MFG. CO. Jas. T. Hunt, Pres.; R. L. Corbett, V. P.-Supt.; B. F. Hannum, Secty.-G. M.-P. A.	1600 E. 22nd St.
II-KK-DD	HUSSEY POWER PARTS CO. P. L. Hussey, Pres.-G. M.-Treas.-P. A.; A. W. Anderson, V. P.; E. W. Huber, Prod. & Gen. Supt.; J. F. Sodja, Asst. P. A.	1341 Giddings Rd.
BB-E	HYATT ROLLER BEARING CO. (Industrial Div.) C. L. Newby, Mgr.-Engr.	Marshall Bldg.
BB-NN-C-B	HYDRAULIC PRESS MFG. CO., THE C. E. Newell, Dist. Mgr.	(Sales) Kirby Bldg. (Wks. Mount Gilead, Ohio.)
D-GG-G	HYDRAULIC PRESSED STEEL CO. OF THE HYDRAULIC STEEL CO. James H. Foster, Pres.; H. B. Bole, 1st V. P.; G. C. Brainard, V. P.-G. M.; H. F. Pettee, Secty.; R. E. Hayslett, Treas.; W. E. Irish, Ch. Engr.; C. B. Tyler, Fcty. Mgr.; M. L. Williams, P. A.; J. D. Gilchrist, Asst. P. A.	6100 Hydraulic Ave.
G-D-GG	HYDRAULIC STEEL CO., THE James H. Foster, Pres.; H. B. Bole, 1st V. P.; G. C. Brainard, V. P.-G. M.; H. F. Pettee, Secty.; R. E. Hayslett, Treas.; M. L. Williams, P. A.; J. D. Gilchrist, Asst. P. A.	6100 Hydraulic Ave.
QQ	HYDRAULIC STEELCRAFT CO. OF THE HYDRAULIC STEEL CO. James H. Foster, Pres.; H. B. Bole, 1st V. P.; G. C. Brainard, V. P.-G. M.; H. F. Pettee, Secty.; R. E. Hayslett, Treas.; T. C. Hammond, Fcty. Mgr.; M. L. Wil- liams, P. A.; J. D. Gilchrist, Asst. P. A.	6100 Hydraulic Ave.
BB-R	IDEAL ELECT. & MFG. CO., THE C. A. Kuehn, D. Sales Mgr.	Nat. City Bldg. (Wks. Mansfield, O.)
B-DD-II	IDEAL TOOL CO., THE P. Grabler, G. M.-Supt.	604 Long Ave.

CLEVELAND, CUYAHOGA COUNTY, OHIO		
Class	Firm and Personnel	Address
H-K	ILER COMPANY, THE Frank Iler, Pres.-G. M.-Supt.	6607 St. Clair Ave.
C-L-BB-QQ	IMPERIAL SAFETY SUPPLIES CO., THE J. C. Eiben, Pres.; E. Eiben, V. P.; M. J. Cutter, S. T.-G. M.-P. A.	1316 Ontario St.
GGG	IMPERIAL STEEL RANGE CO., THE Wm. N. Tarnutzer, Pres.-Gen. Mgr.-Pur. Agt.; Geo. A. Tarnutzer, Secy.-Treas.	2900 Detroit Ave.
BB-OO	INDEPENDENT PNEUMATIC TOOL CO., THE H. F. White, Loc. Mgr.	Citizens Bldg. (Wks. Aurora, Ill.)
BB-C-NN	INDUSTRIAL EQUIP. CO. E. R. Morrison, Sales Agt.	Ulmer Bldg.
ZZ	INDUSTRIAL IRON WKS., THE Frank Kuepferle, Pres.-Gen. Mgr.-Pur. Agt.; Jos. Hobart, Jr.; V. Pres.; Oscar Horn, Secy.; S. R. Stone, Treas.	16025 Saranac Rd.
DD	INDUSTRIAL MACHINE CO., THE H. L. Freeman, V. P.-P. A.; L. H. Freeman, S. T.; W. G. Dart, Gen. Supt.	2160 Superior Ave. N. E.
BB-L	INDUSTRIAL PRESS, THE (New York City) H. B. Hurlburt, Dist. Sales.	2220 E. 83rd St.
BB-J-PP-KK	INGERSOLL MILLING MACH. CO. Ira D. Grove, Dist. Mgr.	1279 W. 102nd St.
BB-NN-OO	INGERSOLL-RAND CO., THE W. A. Armstrong, Loc. Mgr.	Williamson Bldg.
C-EE	INTERLAKE ENGR. CO., THE A. W. Thompson, Pres.-Treas.; G. M. Steinbrenner, Secy.; E. W. Dodd, G. M.; E. J. McGraw, Pur. Agt.	Cuyahoga River & Jefferson Bridge
X-H	INTERNATIONAL FOUNDRY Emanuel Hribal, Prop.-P. A.; F. J. Lukes, Gen. Supt.	6601 Morgan Ave.
H-X	INTERNATIONAL PERMOLD CO. J. B. Chaffee, Jr., Pre.-G. M.	6800 Grant Ave.
S	INTERNATL. STEEL TIE CO. W. P. Day, Pres.; T. J. Clifford, V. P.-Secy.-P. A.; W. C. Mann, Treas.	16702 Waterloo Rd.
LL	INTERNATL. STEEL TUBE CO. C. H. Hopkins, Treas.-Sales.	Main Office Leader News Bldg. (Wks. E. 146th St.)
DDD	INTERNATL. TIME RECORDING CO. OF N. Y. H. D. Traver, Sales Agt.	626 Huron Rd.
	INTERSTATE BUSINESS EXCHANGE Chas. Hollman, Gen. Mgr.	Rose Bldg.
H-X	INTERSTATE FOUNDRY CO., THE F. B. Whitlock, Pres.; L. S. Charpie, Secty.; L. A. Murfey, Treas.; B. S. Rothwell, Supt.; H. R. Evans, P. A.	3161 E. 61st St.
BB-JJ-G	INTERSTATE IRON & STEEL COMPANY J. E. Rawson, Dist Mgr.	Rose Bldg. (Wks. Chicago, Ill.)
BBB	IRONIUM PRODUCTS CO., THE S. E. Moses, Pres.; S. J. Ripich, V. P.; C. F. McConnell, Secty.; Wm. Hunsdorf, Treas.-G. M. Supt.	720 Frankfort Ave.
DD-II	J. & M. MACHINE CO., THE Thomas B. McAdams, Prop.; LaMar R. Jones, Supt.	14421 Elderwood Ave.
V	J. T. TRACTOR COMPANY F. R. Fuller, Pres.-G. M.; J. J. Tracy, V. P.	1515 Fairfield Ave.
BB-G-JJ	JACKMAN, E. S. & CO., REP. FIRTH-STERLING STEEL CO. M. E. Berkemer.	333 Frankfort Ave.
DD	JACKSON, C. E. & CO. C. E. Jackson, Prop.	518 Prospect Ave. N. W.
BB-I-PP-KK	JAEGER, M. Jaeger, M., Prop.	Engineers Bldg.
BB-M-H-X	JANES-EDWARDS CO. J. F. Janes, Pres.-Treas.; C. J. Edwards, V. P.-Secty.-P. A.	Hanna Bldg.
II	JOHANEK TOOL MFG. CO. Frank J. Johaneck, Prop.	2471 E. 13th St.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
	JOHNS ENGINEERING CO., THE	625 Champlain Ave. (See Metal Model Engr. Co.)
D	JOHNS MACHINE & STAMPING WKS., THE C. T. Stich, G. M.-Supt.; E. C. Hennie, P. A.	1715 Leonard Ave.
BB-I-UU	JOHNSON BELTING CO., THE C. B. Johnson, Pres.-Treas.; F. W. Johnson, V. Pres.-Secy.	Wade Bldg.
G-M-H-X-DD	JOHNSTON & JENNINGS CO., THE N. S. Calhoun, Pres.; T. J. Calhoun, V. P.; J. B. Clough, Mgr. Forge Dept.; F. N. Gilliland, Ch. Engr.; T. J. Ring, P. A.	Addison Rd. & N.Y.C.
BB-G-JJ	JONES & LAUGHLIN STEEL CO. E. A. France, Dist. Mgr.	Kirby Bldg.
A-B	JONES TOOL COMPANY C. F. Jones, Pres.-Mgr.-P. A.; L. W. Jones, Supt.	3346 Avalon Rd.
E	JORDAN MOTOR CAR CO., INC. Edward S. Jordan, Pres.-G. M.; T. E. Borton, V. P.; Paul Zens, Secty.-P. A.; Otto Miller, Treas.; Russel S. Begg, Ch. Engr.; J. H. Kelly, Fcty. Mgr. Prod.; E. G. Keller, Asst. P. A.	1070 E. 152nd St.
R-E	K-W IGNITION CO., THE J. A. Williams, Pres.; Wm. Kaple, V. P.-Fcty. Mgr.; A. F. Williams, S. T.; C. Albracht, Gen. Mgr.; A. G. Karkau, Ch. Engr.; W. L. Barr, P. A.	2811 Chester Ave.
H-X	K & M BRASS & ALUM. CASTINGS CO. E. J. Horton, Secty.-P. A.; R. S. Male, G. M.-Supt.	10800 Harvard Ave.
HHH	KAGY, EDW. L. CO. Ed. L. Kagy, Prop.	1265 E. 2nd St.
D	KANTERS STAMPING & MFG. CO., INC. Wm. Kanter, Pres.; M. E. Kanter, V. P.-G. M.; A. A. Kanter, S. T.-P. A.	E. 133rd & Shaw Ave.
L	KATH & BAUGHMAN E. W. Kath, Managing Partner.	Schofield Bldg.
BB-I-PP-KK	KEARNEY & TRECKER CORP. C. J. Sturgeon, Loc. Sales Mgr.	(Wks. Milwaukee, Wisc.) 738 Superior Ave. N. W.
II-KK	KELLY REAMER CO., THE H. C. Putnam, Pres.; W. A. Calhoon, V. P.; A. C. Carter, Secty.; H. W. Strong, Treas.; E. W. Putnam, G. M.; W. H. Lund, P. A.; L. MacCulloch, Gen. Supt.	3705 W. 73rd St.
B-L-H-X	KILBY MFG. CO., THE C. A. Paine, Pres.; J. H. Francis, V. Pres.-G. M.; H. E. Grill, Ch. Engr.; Fred Asmus, P. A.; F. Druckenbrud, Supt.	4623 Lakeside Ave.
BB-OO	KING PNEUMATIC TOOL CO., THE J. C. Sague, Dist. Mgr.	1404 E. 9th St.
BB-F	KINDT-COLLINS CO. E. T. Kindt, G. M.-P. A.	1030 St. Clair Ave. N. E.
ZZ	KING BRIDGE COMPANY H. W. King, Pres.; Harry Fuller, G. M.-Ch. Engr.; A. E. Smith, Gen. Supt.; Jas. A. Parker, P. A.	Ft. E. 69th St.
H-X	KING BRONZE & ALUM. FDRY. CO., THE George Kinkopf, Pres.; C. J. Fitzpatrick, V. P.-P. A.; D. H. Clark, Secty.-Treas.	1734 E. 37th St.
NN	KING COIL MFG. CO., THE Harry T. Gettins, Pres.-G. M.-P. A.; Laurel Gettins, V. P.; Stanley E. Dunn, S. T. E. J. Shaffrank, Gen. Supt. Asst.-P. A.	Main Office Schofield Bldg. (Wks. 1011 Power Ave.)
II-DD	KING TOOL GRINDING CO. W. J. King, Pres.-P. A.; B. W. King, V. Pres.; G. L. Haines, Fcty. Mgr.	418 Prospect Avenue, N. W.
DD	KINGSLEY MACHINE CO. J. T. Kingsley, Prop.	2090 W. 28th St.
N	KIRCHNER IRON & WIRE CO. August Kirchner, Prop.	1149 Norwood Ave
D-U	KIRK-LATTY MFG. CO., THE S. D. Latty, Pres.-G. M.; W. M. Horton, Gen. Supt.; G. F. Woelfel, Ch. Engr. A. W. Houck, P. A.	1971 W. 85th St.
N	KNAPP FENCE CO., THE E. J. Knapp, Pres.; C. S. Salisbury, Secy.-Treas.-Pur. Agt.	1148 E. 134th St.

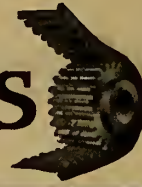
OHIO
SALES
OFFICE



MORSE



DRIVES



ENGINEERS
BUILDING
CLEVELAND

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
BB-A-B-I-00	KNOX ANDRESON TOOL CO. C. J. Cartwright, Gen. Mgr.	Bangor Bldg.
D-II-DD	KONIGSLOW, E. STAMPING & TOOL WKS. H. F. Stuhr, Prop.; G. M.-P. A.; Wm. Schmidt, G. Supt.	323 Champlain Ave.
D-DD	KONIGSLOW, OTTO MFG. COMPANY, THE Otto Konigslow, Sr., Pres.; W. C. Baker, V. P.; M. E. Konigslow, S. T.-G. M.-P. A. Otto Konigslow, Jr., Fcty. Mgr.	E. 35th & Perkins Ave.
B-DD	KREMER-CUMMINS MACH. CO., THE R. W. Kremer, Pres.; R. R. Cummins, V. P.-G. M.-P. A.; Edw. Cilley, Gen. Supt.	1833 E. 55th St.
S	KUHLMAN, G. C. CAR CO., THE S. M. Curwen, Pres.; J. W. Rawle, V. Pres.-Treas.; R. H. Watts, Secy.; H. K. Hauck, Gen. Mgr.; C. F. Dennis, Ch. Engr.; H. J. Titman, Gen. Supt.; G. L. Haupt, Mfg. Supt.; M. H. Schefft, Pur. Agt.	140th St. & N. Y. C. R. R.
	KUNDTZ, THEODORE CO., THE A. S. Rodgers, Pres.; Theodor Kundtz, V. Pres.; Jos. J. Gedeon, Secy.; M. R. Sutherland, Tres.; A. C. Miller, Fcty. Mgr.; Frank Bishop, Ch. Engr.; N. Mook, Prod. Mgr.; F. G. Flichenger, Master Mech.; Wm. Gedeon, Pur. Agt.	Winslow & Elm Streets.
E	KURTZ MOTOR CAR CO., THE C. B. Kurtz, Pres.-G. M.	Lorain Ave. & N. Y. C. R. R.
E	L. M. AXLE CO., THE G. B. Durell, Pres.-Treas.; W. T. Walker, V. P.-G. M.; R. H. Goodrich, Ch. Engr. George Weske, Supt.; H. R. Farnsworth, P. A.	965 Wayside Rd.
H-X	L. N. N. FOUNDRY CO., THE M. Greenhut, Pres.; Grover Mendelsohn, S. T.-P. A.	2088 Scranton Rd.
BB-G-JJ	LACKAWANNA STEEL CO., THE John C. Chandler, Dist. Sales Mgr.	Citizens Bldg. (Wks. Buffalo, N. Y.)
BB-I-UU	LADEW, EDW. R. CO. J. D. Thompson, Dist. Mgr.	1608 W. Third Street.
DD-B	La GANKE, CHARLES F. (Prop.)	Card Bldg.
R	LAGANKE ELECTRIC CO., THE W. E. Laganke, Pres.-Supt.	6969 Aetna Rd.
BB-NN-K	LAGONDA MFG. CO., THE M. C. Sickels, Dist. Mgr.; W. E. Widau, Sales Engr.	Guardian Bldg. (Wks. Springfield, O.)
M-U	LAKE ERIE BOLT & NUT CO., THE N. J. Clarke, Pres.-G. M.; H. E. Volmar, S. T.; H. M. Hines, P. A.; Geo. Rappert, Supt. of Prod.; R. M. Broadwell, Supt., Maintenance.	915 E. 63rd St.
M-DD	LAKE ERIE FORGE & MACH. CO., THE J. A. Markley, Pres.-G. M.-Supt.; G. B. Houseman, S. T.-P. A.	Scranton & University Road.
DD	LAKE ERIE METAL PRODUCTS CO., THE Information Withheld.	4001 West 25th St.
S-SS	LAKEWOOD ENGR. CO., THE C. F. Lang, Pres.; W. E. Hyde, V. Pres.-Treas.; A. W. Stone, Secy.; Lloyd Brown, Gen. Mgr. H. T. Pleines, Prod. Mgr.; Lion Gardner, Gen. Mgr.-Sales; H. M. Toole, Pur. Agt.	Berea Rd. & W. 117th St.
E	LANG BODY COMPANY Charles E. J. Lang, Pres.-Treas. Sales Mgr.; Elmer Lang, V. P.-G. M.; Wm. Lutey, Ch. Engr.; Wm. Dreger, P. A.; John Ryan, Gen. Supt. Fcty. Mgr.	3088 W. 106th Street.
K	LANGENAU MFG. CO., THE J. F. Langenau, Pres.-Treas.; H. C. Baehr, V. Pres.; J. C. Brooks, Secy.; R. F. Zinzer, Pur. Agt.	8402 Franklin Ave.
BB-JJ-G	LATROBE ELECTRIC STEEL CO. P. W. Fenner, Dist. Mgr. Sales.	1280 Ontario St. N. W. (Works Latrobe, Pa.).
VV	LAUNDRYETTE MFG. CO., THE F. C. Maxhimer, Pres.; A. G. Cook, S. T.; E. R. Crawford, P. A.; C. B. Hawk, Gen. Supt.	1190 E. 152nd St.
UU	LEATHERKRAFT CO., THE J. J. Metcalfe, Pres. G. M.	5914 Cedar Ave.
R-E	LEECE-NEVILLE CO., THE S. M. Neville, Pres.-Treas.; B. M. Leece, V. P.-Ch. Engr.; Geo. S. Cole, Secty.; E. J. Fuller, Fcty. Mgr.; D. M. Evans, Pur. Agt.; F. Simonds, Prod. Mgr.; F. Milhoff, Gen. Supt.; A. A. Skinner, Sales Mgr.; W. W. Murray, Service Mgr.	5353 Hamilton Ave.

THE MOTT & MERRYWEATHER MACHINERY CO.

Cleveland
Cincinnati
Detroit
Pittsburgh

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
A-B	LEES-BRADNER CO., THE H. T. Bradner, Pres.-G. M.; E. J. Lees, Ch. Engr.; Chas. Schurr, Engr.; J. W. Barlow, Sales Engr.; Chas. Sebelin, Gen. Supt.	6210 Carnegie Ave
R	LEONARD ELECTRIC & MFG. CO. S. A. Leonard, Pres.; R. McCurdy, V. P.-G. M.-P. A.	3907 Perkins Ave.
JJJ	LETTER SPECIALTY CO., THE E. C. Forbes, Pres.-Gen. Mgr.; G. A. Stauffer, Secy.-Treas.	Standard Theater Bldg.
B-DD	LEWIS MACHINE CO. M. W. Lewis, Pres. Supt.	6303 Central Ave.
DD-II	LIBERTY GAUGE & INST. CO., THE A. Soros, Pres.; Louis Federman, V. Pres.; John Zimmer, Secty.; C. Becker, Treas. G. M.; R. A. Walters, Sales Mgr. P. A.	6545 Carnegie Ave.
R	LINCOLN ELECTRIC CO., THE J. C. Lincoln, Pres.; F. J. Lincoln, V. P.-G. M.; J. W. Meriam, S. T.; B. W. David, Ch. Engr.; E. D. Moore, Fcty. Mgr. Supt.; Herman Staff, P. A.	E. 38th & Kelly Ave.
DD	LINCOLN ENGR. CO., THE Chas. G. Burton, Pres.-Supt.-P. A.; Glenn S. Crockett, V. Pres.; Chas. A. Burton, Secy.-Treas.	2301 Center Ave.
BB-AAA	LINDE AIR PRODUCTS CO., THE L. M. Zimmer, Dist. Sales Mgr.	Marion Bldg.
L	LINDMUELLER, EDWARD (Prop)	Plymouth Bldg.
BB-P-Y-Z-CC	LINK BELT CO., THE P. V. Wheeler, Dist. Mgr.	Kirby Bldg.
BB-I-PP	LITTLE, W. P. COMPANY W. P. Little, Prop.-G. M.-Sales.	1616 Columbus Rd.
B-DD	LOEW MFG. CO., THE O. H. Loew, Pres.-G. M.; C. F. Loew, Fcty. Mgr.; Walter Loew, Secy. & Treas.; A. B. Gould, Gen. Supt. Ch. Engr.	9001 Madison Ave.
DD	LOOMIS & SIELAFF CO., THE J. C. Rosenfeld, Pres.; M. J. Sielaff, V. Pres.; G. M.-P. A.; M. D. Douglas, Secy.-Treas.; Chas. Zentgraf, Supt.	6616 Morgan Ave.
A-B-WW	LUCAS MACHINE TOOL CO. H. M. Lucas, Pres.-G. M.; G. A. Yost, S. T.-Asst. G. M.; H. A. Woods, P. A.	E. 99th & N. Y. C. R. R.
BB-JJ-G	LUDLUM STEEL CO. K. E. Porter, Dist. Mgr. Sales.	Guardian Bldg.
L	LUEHRS, DANIEL M. Daniel Luehrs, Prop.	2015 E. 65th Street
BB-I-KK	LUEKE & PULS A. W. Lueke, Pres.; L. H. Mesker, V. Pres.; A. E. Puls, Secy.-Treas.; V. J. Smith, Sales Dept.	18511 Euclid Ave.
BB-I-K-N-S-U	LUETKEMEYER CO., THE E. H. Luetkemeyer, Ch. Board; Harry Hutchisson, Pres.; A. G. Hinz, V. Pres. Pur. Agt.; J. J. Fite, Secy.; Wm. F. Glasenapp, Treas.	725 Superior Ave. N. W.
BB-NN-C	LUITWIELER PUMPING ENGINE CO. F. H. Kelliher, Dist. Mgr.	Perry Payne Bldg. (Wks. Rochester, N. Y.)
BB-AAA	LUX, L. A. COMPANY, THE L. A. Lux, Pres.-G. M.-P. A.; H. F. Bouse, Secty. Sales Mgr.	2185 E. 2nd St.
DD-II-KK	LYONS MACHINE CO. Joe H. Lyons, Prop.-Supt.-Pur. Agt.	321 Frankfort Ave.
MM	MCCLELLAN, WILLIAM CO., THE Wm. McClellan, Pres.; A. I. McClellan, S. T.-P. A.; R. Beuck, Gen. Supt.	3400 Hamilton Ave.
BB-II-KK	MCCROSKY TOOL CORP. T. J. Fraser, Dist. Mgr.	1540 Addison Rd.
BB-OO-JJ	MCDONOUGH, W. R. & CO. W. R. McDonough, Pres. Sales.	Natl. Bldg.
BB-OO-AA	McKAY, GEO. C. COMPANY George C. McKay, Pres.-Sales.	1046 St. Clair Ave. N. W.

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
L	McKEE, ARTHUR G. & COMPANY Arthur G. McKee, Pres.; Donald D. Herr, V. P.; Robt. E. Baker, S. T.; T. W. Rutledge, P. A.; T. E. Roan, Asst. P. A.	2422 Euclid Ave.
G	McKINNEY STEEL CO., THE Price McKinney, Pres.; J. E. Ferris, V. P.-S. T.; Paul Owen, P. A.; S. H. Agnew, Gen.-M. M.	Main Office—Perry Payne Bldg. (Wks. Dille Rd.)
ZZ	McLAREN IRON WORKS G. M. McLaren, Pres.; A. B. Clemens, V. P.-G. M.; A. McLaren, Secty.-Supt.; Wm. Daw, Ch. Engr.; H. J. DeGraff, P. A.	Urbana & N. Y. C.
A-B-DD-II	MACHINE PRODUCTS CO. Frank Horsburgh, Pres.-Treas.; E. H. Browning, V. Pres.-P. A.	1333 Berlin Rd.
M	MACHINERY FORGINGS CO., THE H. S. French, Pres.-Gen. Mgr. Pur. Agt. (Steel); E. Armstrong, Sec.-Treas.; Wm. Hargett, Supt. Mch. Shop; E. A. Smith, Supt. Forge Shop.	5450 Hamilton Ave.
BB-P-Z	MACKINTOSH ENGINEERING CO. George S. Mackintosh, Pres. Sales.	Schofield Bldg.
H-X	MADISON FOUNDRY CO. M. W. Merriman, Pres.-G. M.-P. A.; Jas. T. Merriman, Gen. Supt.	935 Addison Road.
F-H	MADISON PATTERN & FLASK WORKS J. F. Hines, Pres.-Supt.; R. G. Adler, P. A.	10106 Detroit Ave.
BB-K-BBB	MAHR MANUFACTURING CO. H. H. Keeler, Loc. Mgr. Sales.	1034 St. Clair Ave. N. E.—(M. O. Minneapolis, Minn.)
N	MALIN & CO., THE C. R. Marsh, Pres.-Treas.-Pur. Agt.; W. A. Coy, Secty.	2514 Vestry Ave.
D	MALLORY, B. L. B. L. Mallory, Prop.	3621 Lakeside Ave.
D-QQ	MANNEN, JOHN E. COMPANY John E. Mannen, Sr. Pres.-Supt.; John E. Mannen, Jr., S. T.-G. M.-P. A.	2241 St. Clair Ave.
BB-AA	MANNING ABRASIVE CO., INC. E. C. Schacht, Dist. Mgr.	648 Huron Rd..
BB-I-PP-P-CC	MANNING, MAXWELL & MOORE CO., INC. E. E. Winship, Dist. Sales Mgr.	Leader-News Bldg.
BB-D-E-X	MANUFACTURERS SALES CO., THE Norman Craig, Pres.-Sales Mgr.-Treas.; Happer Payne, V. Pres.; M. Warwick, Sec.-P. A.	7016 Euclid Ave.
U-D-DD	MARQUETTE METAL PRODUCTS CO., THE H. Gleitz, Pres.-G. M.-P. A.; B. L. McClure, Secty.-Supt.	6545 Carnegie Ave.
E	MARSH MOTOR CAR CO. W. T. Marsh, Pres.; F. R. Wilhelmy, Secty.; W. A. Smith, Treas.; A. R. Marsh, G. M.-Ch. Engr.-P. A.	Ridge Rd. and Flowerdale Street.
V	MARTIN, GLENN L. CO., THE Glenn L. Martin, Pres.; Lawrence Bell, V. P.-Fcty. Mgr.; C. D. Hanscomb, Ch. Engr.; J. C. Rombach, Gen. Supt.; C. A. Van Dusen, Prod. Mgr.; W. A. Cremming, P. A.	16800 St. Clair Avenue.
ZZ	MARTY, A. H IRON WKS. Charles J. Geitz, G. M.-Supt.	6816 Union Ave.
DD-II-B	MASKELL, J. H. J. H. Maskell, Prop.	1419 E. 40th St.
D-DD-ZZ	MASTER PRODUCTS CO., THE W. A. Bohn, Pres.-Supt.; C. G. Walters, S. T.-P. A.	6410 Park Ave.
DD.II	MASTER TOOL CO., THE Henry E. Riker, Pres.-Treas.; H. D. Marble, V. P.; C. P. Overly, Secty. G. M.-Fcty. Mgr.	205 St. Clair Ave. N. W.
BB-Z	MATHEWS GRAVITY CARRIER CO. A. B. Evans, Dist. Mgr. Sales.	12007 Detroit Ave.
BB-I-K	MAU-SHERWOOD SUPPLY CO., THE F. J. Mau, V. P.-G. M.-P. A.; H. B. Castle, Asst. P. A.	1616 West 3rd St.
BB-I-PP-KK	MAXWELL TOOL & SUPPLY CO. John Maxwell, Pres.-G. M.; R. M. Webb, V. P.	4500 Euclid Ave.
BB-R	MECHANICAL APPLIANCE CO. E. E. Beam, Dist. Mgr.	5716 Euclid Ave.

Who?

Est. 1906

HIGH CLASS EMPLOYMENT SERVICE

INTERSTATE BUSINESS EXCHANGE

MAIN 3629 658 ROSE BUILDING CLEVELAND

FOR

Executives, Engineers,
Draftsmen, Salesmen,
Office Men and Women

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
YY	MECHANICAL RUBBER CO., THE H. W. Waite, G. M.; George Lowe, Ch. Engr.; R. W. Fogarty, Plant Engr. R. Graves, Fcty. Mgr.; R. H. Tyrell, Gen. Supt.; R. Filkins, P. A.	Ft. Lisbon Rd.
H-X	MEECH FOUNDRY COMPANY P. D. Crane, Pres.; H. P. Crane, V. P.; P. R. Morran, G. M.-Supt.-P. A.	10225 Meech Ave.
D-DD-L	METAL MODEL ENGINEERING CO. Ben. E. John, Pres.-G. M.	1591 Columbus Rd.
D-U	METAL PARTS MFG. CO., THE H. D. Baker, Pres.-G. M.-P. A.; Joel H. Fuller, V. P.; R. E. Helmer, S. T.-Fcty. Mgr.	16606 Waterloo Road.
EE	METALS WELDING CO., THE E. C. Henn, Pres.; M. C. Teufel, V. Pres.; T. F. Troy, Secy.-Treas.; D. L. Britton, G. M.-P. A. H. L. McCreery, Fcty. Mgr.	4400 Perkins Ave.
BB-G	MIDVALE STEEL & ORDINANCE CO. W. B. Smyth, Dist. Mgr.	Swetland Bldg.
QQ	MILLS COMPANY, THE F. C. Mills, Jr., Pres.-Treas.; George M. Mills, V. P.-Secty.; L. P. Bauer, P. A.; A. J. Malmberg, Gen. Supt.	5320 St. Clair Ave.
BB-C-NN	MILWAUKEE TANK WKS. S. J. Vitoske, Br. Mgr.	Plymouth Bg.
C	MINERVA ENGINE CO., THE R. K. Johnson, V. P.-Engr.	Seventy-First Euclid Bldg. (See Motor Prod. & Engr. Co.).
D-E	MITCHELL, G. E. & SON CO. H. W. Mitchell, Pres.-G. M.-P. A.; George R. Mitchell, Gen. Supt.	6501 Cedar Ave.
HHH	MO-GRITE OIL COMPANY C. E. Lee, Gen. Mgr.-Pur. Agt.	1217 E. 138th Street.
BB-G	MOLTRUP STEEL PRODUCTS CO. H. D. Cushman; R. L. Williams.	Finance Bldg.
D-X-H	MONARCH ALUMINUM WARE CO. A. S. Deutsch, Pres.; H. J. Deutsch, V. P.-Sales; J. Pollock, Secy.-P. A.; Raymond Deutsch, Gen. Mgr.	4613 Payne Ave.
DD-II	MONMOUTH MACHINE CO., THE E. H. Hopkins, Pres.; E. A. Killmaster, V. P.-G. M.-Supt.	2343 Lakeside Ave. N. E.
BB-N-FF	MOON, GEORGE C. COMPANY C. L. Norton, Dist. Mgr.	Kirby Bldg. (Wks. Garwood, N. J.).
BB-CC-WW-QQ	MORRIS & REYNOLDS C. L. Morris; H. Reynolds.	Marshall Bldg.
BB-Y-HH	MORSE CHAIN CO., THE D. I. Wheeler, Dist. Mgr. Sales.	Engineers Bldg.
BB-G-JJ	MORSE-ROGERS STEEL CO., THE F. H. Morse, Pres.; E. D. Rogers, V. Pres.; H. V. Morse, Secy.; J. D. Rogers, Treas.	Guardian Bldg.
BB-I-PP	MOTCH & MERRYWEATHER MACHINERY CO., THE G. E. Merryweather, Pres.; E. R. Motch, Secy.; Stanley Motch, Treas.; H. A. Murton, P. A.—Branch office at Cincinnati, O.	711 Lakeside Ave. N.W.
F	MOTOR PATTERNS CO., THE F. B. Whitlock, Pres.; A. J. Koryta, V. P.-G. M.-Supt. P. A.; H. R. Street, S. T.;	E. 61st & Waterman Ave.
DD-C	MOTOR PRODUCTS & ENGR. CO., THE C. S. Goby, Pres.-Ch. Engr.-G. M.; L. R. Long, Secty.-P. A.; Frank C. Scholl, Gen. Supt.	1917 E. 61st St.
BB-A-II-KK	MURCHEY MACHINE & TOOL CO. E. E. Fletcher, Dist. Mgr. Sales.	Williamson Bldg.
BB-I-KK	MURLEY TOOL & SUPPLY CO., THE E. M. Leypold, Pres.-Sales; W. E. Murphy, G. M.-P. A.	716 Superior Ave. NW
D-E	MURRAY-OHIO MFG. CO., THE J. W. Murray, Pres.; C. W. Hannon, V. P.-G. M.-Sales; J. R. Murray, S. T.;	6110 Grand Ave.
A-B-U-II	NATL. ACME CO., THE A. W. Henn, Pres.-Treas.; E. C. Henn, V. P. Gen. Supt.; N. S. Rathburn, Secty.; Fred K. Rand, Supt.; H. S. Mitchell, P. A.	7500 Stanton Ave. (Stanton Plant).

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
A-B-U-II	NATL. ACME CO., THE A. W. Henn, Pres.-Treas.; E. C. Henn, V. P.; N. S. Rathburn, Secty.; W. R. Mitchell, Wks. Mgr.; E. J. Masterson, P. A.; O. A. Smith, Supt.	E. 131st & Coit Road (Coit Plant)
D-GG-QQ	NATL. BOX & CAN CO. J. C. Sparrow, V. P.-G. M.-P. A.; G. T. Bauder, Secty.; W. T. Tengler, Treas.-Fcty. Mgr.	4131 Broadway
H-X	NATIONAL BRONZE & ALUMINUM FDY. CO., THE J. F. Shafner, Pres.-Treas.; Wm. F. Muth, V. Pres.-Secty.-Pur. Agt.	E. 88th & Laisy Avenue.
H-S	NATL. CAR WHEEL COMPANY J. D. Rhodes, Pres. (Pittsburgh, Pa.); C. A. Maher, V. P.-Sales Mgr.; (M. O. Pitts. Pa.) G. P. Rhodes, S. T.-P. A. (Pittsburgh, Pa.); J. D. Cunningham, Supt.	(Wks. 2112 W. 106th St.) Office Cuyahoga Bldg.
R	NATIONAL CARBON CO. H. E. Hackenberg, V. Pres.-Secy.; H. G. Robbins, Asst. Secy.-Treas.; A. V. Wilker, Gen. Supt.; J. R. Crawford, Sales Mgr.; C. C. Winkle, Pur. Agt.	Madison & West 117th St.
LL	NATL. COPPER & SMELTING CO. J. F. Harrison, Pres.; Geo. S. Patterson, V. P.; Frank G. Carpenter, Secy.; W. C. Husted, Treas.-P. A.	1895 Coltman Rd.
D	NATL. FORMETAL CO., THE A. R. Schiele, Pres.-Ch. Engr.-P. A.; H. W. Parker, V. P.-G. M.; C. H. Morrow, S. T.	226 St. Clair Ave. N. E.
ZZ	NATL. IRON & WIRE CO., THE J. Craig, Vice Pres.-G. M.-Supt.; W. K. Billingsstein, Secy.-Treas.	3901 Hamilton Ave.
	NATIONAL LAMP WORKS OF GENERAL ELECTRIC CO. See Listing on General Electric Co.	Nela Park
U-O-E	NATL. MACHINE PRODUCTS CO., THE F. S. Poulson, Pres.; C. J. Pilliod, G. M.-P. A.-Supt.	10112 Tanner Ave.
H-X	NATL. MALLEABLE CASTINGS CO. W. W. McMillen, Gen.-P. A.; R. Newitt, Ch. Engr.-M. M.; Chester Brooks, Gen. Supt.	Quincy & Woodhill Road.
BB-R	NATL. POWER MACHINERY CO., THE J. W. Kohn, Pres.; M. S. Kohn, V. P.-G. M.-P. A.	1914 Scranton Rd.
BB-JJ-LL-G	NATL. PRESSED STEEL CO., THE H. T. Vogelsberg, Loc. Sales Mgr.	Swetland Bldg. (Wks. Massillon, O.)
D-GG-QQ	NATL. SAFE & LOCK CO. L. W. Marshall, V. P.-Ch. Engr.; J. F. McCaslin, P. A.	2341 E. 69th St.
U-N	NATL. SCREW & TACK CO., THE W. D. B. Alexander, Pres.; G. M.; D. C. Greise, V. P.; H. T. Beidler, Secty.; H. G. Alexander, Treas.; W. B. Alexander, Fcty. Mgr.-Supt.; L. Barber, Ch. Engr.-M. M.; H. Norton, P. A.; H. H. Krause, Asst. P. A.; C. H. Palmer, Sales Mgr.	2440 E. 75th St.
G	NATL. SMELTING COMPANY Walter M. Weil, Treas.-G. M.	Grant Ave. & E. 71st St.
GG	NATL. STEEL BARREL CO., THE C. F. Schriener, Pres.-Treas.; E. R. Kelly & J. J. Schriener, V. P.; P. R. Long, Secty.-P. A.; E. J. Ott, Gen. Supt.	3860 E. 91st St.
II-KK	NATL. TOOL COMPANY, THE E. A. Noll, Pres.-G. M.; S. J. Kornhauser, S. T.; A. O. Geiseler, Fcty. Mgr. Supt.; M. L. Levis, P. A.	11200 Madison Ave.
BB-A-B-NN	NATL. TRANSIT PUMP & MCH. CO. C. A. Roberts, Dist. Mgr. Sales.	Park Bldg. (Works Oil City, Pa.)
EE	NATL. WELDING CO. Robert Young, Prop.-Supt.	3951 St. Clair Ave.
O	NETTLETON STEEL TREATING CO. C. E. Jennings, Secty.-G. M.-P. A.; F. Nettleton, Gen. Supt.	1371 E. 45th St.
F	NEVADA PATTERN COMPANY F. H. Schoenfeld, Prop.	2167 E. 55th St.
BB-A-B-U-QQ	NEW BRITAIN MACHINE CO., THE R. M. Lippert, Dist. Mgr. Sales.	Engineers Bldg. (Wks. New Britain, Conn.)
GGG	(New Process Div.) AMERICAN STOVE COMPANY J. G. Way, Gen. Mgr.	4415 Perkins Ave.
H-X	NICKEL PLATE FDY. CO., THE R. J. Emrich, Pres.; C. M. Bolich, V. Pres.-Treas.; Otto Fayerle, Secy.-Pur. Agt.	Woodworth & Coit Roads.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
BB-I-PP	NILES TOOL WKS., THE ----- B. A. Tozzer, Dist. Mgr. Mchy.	730 Superior Ave. N. W. (Wks. Hamilton, O.)
BB-E	NORMA CO. OF AMERICA, THE ----- Ralph E. Hecker, Dist. Sales Mgr.	Hanna Bldg.
OO-QQ-L	NORTHERN BLOWER CO. ----- M. A. Eiben, Gen. Mgr.; J. Eiben, Gen. Supt.; L. L. Eiben, P. A.	6409 Barberton Ave.
C	NORTHERN BOILER CO., THE ----- John Korman, Pres.; Robt. Korman, Secty.; Geo. Korman, Gen. Mgr.	W. 86th & Big Four R. R.
BB-P	NORTHERN ENGINEERING WORKS ----- J. G. Bricker, Loc. Mgr. Sales.	Hanna Bldg. (M. O. Detroit, Mich.)
BB-A-B-AA	NORTON COMPANY ----- Oscar E. Nordstrom, Dist. Mgr. Sales.	Engineers Bldg. (Wks. Worcester, Mass.)
C-E	OBERTING MOTORS CO., THE ----- J. W. Oberting, Pres.-P. A.	5320 St. Clair Ave.
QQ-K-E	OHIO BODY & BLOWER CO., THE ----- D. K. Swartwout, Pres.-Prod. Mgr.; H. H. Lind, V. P.-Treas.-G. M.-Fcty. Mgr.; H. J. Mastenbrook, Ch. Eng.; A. R. Wohlman, Gen. Supt.; H. Rohan, P. A.; E. N. Walton, Sales Engr.	9205 Detroit Ave.
G-H	OHIO BRONZE POWDER CO. ----- George F. Glass, Pres.; E. Koch, S. T. P. A.-G. M.	1120 E. 152nd St.
R	OHIO CARBON CO., THE ----- M. G. Tielke, Pres.-Treas.; W. H. Shepard, V. Pres.; J. E. Schunck, Secy.-Pur. Agt. A. K. Moulton, Gen. Mgr.	8219 Almira Ave.
AAA	OHIO CHEMICAL & MFG. CO., THE ----- J. G. Sholes, Pres.-Treas.; Otto S. King, V. Pres.; Garth B. Close, Secy.-Sales Mgr. H. H. Dawson, Gen. Mgr.; R. G. Lyman, Gen. Supt.; J. A. McBride, Pur. Agt.	1177 Marquette Rd.
DD-E	OHIO CRANKSHAFT CO., THE ----- W. C. Dunn, Pres.-G. M.-P. A.	982 E. 152nd St.
R	OHIO ELECTRIC & CONTROLLER CO., THE ----- F. W. Jessop, Pres.; A. D. Walter, V. P.-Supt.; C. Whittier, S. T.-P. A.; R. O. Wertz, Ch. Engr.	5900 Maurice Ave.
BB-S-KKK	OHIO EQUIPMENT CO., THE ----- M. Abramson, Pres.; E. M. Abramson, V. P.-Sales-P. A.	5716 Euclid Ave.
M	OHIO FORGE COMPANY, THE ----- C. M. Lemmon, Pres.; D. H. Pond, V. P.; S. C. Dalbey, Secty.; H. W. Pond, Treas.; J. M. Clem, G. M.; R. B. Tripp, P. A.; C. E. Jones, Gen. Supt.	2955 E. 92nd St.
H-X	OHIO FOUNDRY CO., THE ----- John A. Trenkamp, Pres.-G. M.; William H. Smith, V. P.; Henry Trenkamp, S. T.; P. C. Geoghegan, P. A.	2469 E. 71st St.
B	OHIO ICE MACHINE CO., THE ----- W. E. Graham, Pres.-Gen. Mgr.; Paul Geldner, V. P.; R. H. Schweitzer, S. T.-Supt.	1579-81 Columbus Road.
C-DD	OHIO MACHINE & BOILER CO., THE ----- Christ Koblenzer, Pres.; E. F. Simon, G. M.; R. R. McKenie, Ch. Engr.; F. C. Rasch, Supt.-M. M.; J. Petrosky, P. A.	1503 University Ave.
BB-R	OHIO MACHINE & MOTOR CO., THE ----- F. M. Gardner, Dist. Mgr. Sales.	Bangor Bldg.
E-V	OHIO MOTOR VEHICLE CO., THE ----- W. E. Ferris, Pres.-G. M.-P. A.; P. E. Hawkins, Ch. Engr.	Nottingham & Oakview Rd.
F	OHIO PATTERN WORKS ----- John Simon, Prop.-P. A.	4916 St. Clair Ave.
M	OHIO PIPE BENDING & MCH. CO. ----- F. A. Bowden, Pres.; L. A. Hanford, V. Pres.-Gen. Mgr.; M. H. Williams, Secy.; Robert Ludwig, Treas.; G. D. Conley, Fcty.-Mgr.-Pur. Agt.; G. S. Hanford, Ch. Engr.-S. M.; Sam Williams, Master. Mech.	Elm & Washington Sts.
DD-E	OHIO PISTON CO., THE ----- C. Birnbaum, Pres.-G. M.-P. A.; G. A. Decker, V. P.; F. Somers, Secty.; R. Horsburgh, Treas.; R. C. Huettich, Fcty. Mgr.-Ch. Engr. Asst. P. A.; Fred Kneirim, Gen. Supt.; Don. P. Show, Sales Mgr.	5337 St. Clair Ave.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
D	OHIO SHERARDIZING CO., THE L. S. Robbins, Secy.-Treas.; C. E. Lovering, Fcty. Mgr.	1101 Power Ave.
D-E	OHIO STAMPING & ENGR. CO., THE A. A. Towers, Prop.	1510 E. 50th St.
II	OHIO STEEL STAMP CO. George L. Stipes, Pres.	105 Prospect Ave. N. W.
B	ORAM, JOHN S. CO., THE W. S. Clark, V. P.-Supt.; S. H. Keim, S. T.-P. A.	1324 E. 53rd St.
BB-A-B-JJ-QQ	OSBORN, J. M. & L. A. CO., THE J. R. Reichert, Pres.-Sales Mgr.; W. E. Lutton, Secy.; A. W. Howe, G. M.; J. W. Harrison, P. A.; H. C. Thomas, P. A.; J. J. Koch, Fcty. Mgr. (Wks.); R. A. Stebner, Supt. (Wks.).	1047 Superior Ave. N. W.
D-DD	OSBORN-CREW MFG. CO., THE W. F. Greathead, Pres.-G. M.-Supt.	1628 E. 39th St.
A-B-H	OSBORN MFG. CO., INC. THE Franklin G. Smith, Pres.-Treas.-G. M.; H. R. Atwater, V. Pres.; E. S. Carman, Secy.-Wks. Mgr. E. E. Curtis, Fcty.-Mgr.-Brush Dept.; G. A. Sawitzke, Fcty. Mgr.-Mch. Shop; R. C. Ferguson, Master. Mech.; W. E. Mitchell, Pur. Agt.	5401 Hamilton Ave.
A-B-II	OSTER MFG. CO., THE R. B. Tewksbury, Pres.; H. W. Oster, V. Pres.-Gen. Supt.; Roger Tewksbury, Secy.; E. T. Mitchell, P. A.	2057 E. 61st Pl.
BB-Z	OTIS ELEVATOR CO. C. G. Comstock, Dist. Mgr.	1363 E. 6th St.
G-JJ-H	OTIS STEEL CO., THE —M. O. & Riverside Wks. 2231 Jennings Rd.; Lakeside Wks. 3131 Lakeside Ave. Cleveland Furnace Wks. Clark Ave. & Cuy. River G. Bartol, Pres.-Treas.; H. F. Deverall, V. P.; H. B. Miller, Secty.; L. C. Parrott, P. A.; R. E. Brakeman, Ch. Engr.; P. F. Wilson, G. M.; D. W. Glanzer, Sales Mgr.; C. D. Carlson, Sales Rep.; H. C. Young, Sales Rep.; J. W. Carpenter, Sales Rep. John McKenna, Master Mech.; Wm. Hilditch, Master Mech.	
BB-I-PP-WW	OVIATT, D. C. & COMPANY D. C. Oviatt, Pres.-Sales.	1106 St. Clair Ave. N. W.
BB-FF	OXWELD ACETYLENE CO. J. V. Upton, Sales Mgr.	Union Bldg.
B-DD-II	P. & W. MACHINE & ENGR. CO., INC. G. F. Plautz, Pres.; H. E. Plitz, V. Pres.; E. F. Petzold, Secy.-Treas.-Pur. Agt.	3447 E. 52nd St.
H-X	PARKER-STREET CASTING CO., THE J. S. Parker, Pres.; H. R. Street, V. Pres.;-G. M.-Supt.; H. B. Frischmuth, Secy.-P. A.; Frank Wittasek, Treas.	Stop No. 2½ A. B. C. Line.
K	PARAMOUNT BRASS & MFG. CO., THE Wm. H. Dehn, Pres.-Treas.-Supt.-Pur. Agt.; C. B. Dehn, Secy.	1391 E. 33rd St.
DD-C-E	PARAMOUNT ENGINE & VALVE CO., THE R. J. Thacher, Pres.; J. J. Kerecky, V. P.; C. C. Townes, S. T.; Owen Doult, Engr.-P. A.	2391 Clarkwood Rd.
D	PARAMOUNT METAL SPINNING & STAMPING CO., THE Bernard Holz, Pres.-Pur. Agt.; David Frankel, Secy.-Treas.	2622 E. 51st St.
DD-II-B	PARAMOUNT TOOL CO. W. H. Griesse, Pres.-P. A.; F. A. Schmalz, Treas.-Supt.-P. A. G. M.	102 St. Clair Ave. N. W.
D-E	PARISH & BINGHAM CORP. Agnes D. Morse, Pres.-Treas.-G. M.; F. K. Conrad, Secty.; M. G. Williams, P. A.; O. B. Harmon, Engr.; Wm. N. McMunn, Wks. Mgr.; R. G. Fitch, Sales Mgr.	Madison & W. 105th St.
M-LL	PARK DROP FORGE CO., THE Geo. C. Gordon, Pres.; Fred L. Ball, S. T.-G. M.; W. A. Humel, Gen. Supt.; T. A. Knouff, P. A.; Chas. C. Dodge, Sales Engr.; Jos. Grinder, Asst. P. A.	730 E. 79th St.
OO-V	PARKER APPLIANCE CO. A. L. Parker, Pres.-G. M.-P. A.; C. E. Klamm, Ch. Engr.-Supt.-P. A.	2420 Superior Ave. N. W.
BB-JJ-LL	PATERSON-LEITCH CO., THE C. J. Paterson, Pres.; W. J. Shenk, V. P.; R. I. Leitch, S. T.-G. M.-P. A.; R. L. Stofer, Sales Mgr.; H. N. Findley, Sales Engr.; E. G. Rich, Sales Rep.	950 E. 67th St.
F	PATTERN ENGINEERING CO. R. A. Reich, Gen. Mgr.; V. L. Wakefield, P. A.	4007 Detroit Ave.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
BB-I-PP-OO-NN R-K-CC	PATTISON, W. M. SUPPLY CO., THE W. M. Pattison, Pres.; W. H. Smith, V. P.; A. C. Vaughan, Secty.; C. E. McCombs, Ch. Engr.; P. O. Boylan, Sales Mgr.; C. F. Eiler, Mgr. Mchry. Dept.	777 Rockwell Ave.
DD-B-II	PATTON, J. F. MACH. & MFG. CO., THE J. F. Patton, Pres.-G. M.-P. A.	7033 St. Clair Ave.
A-II-WW	PECK, STOW & WILCOX CO., THE L. E. Fichthorn, Pres.; T. J. Ray, V. Pres.-Gen. Mgr.; F. D. Taylor, Secy.; E. N. Walkley, Treas.; O. J. Blank, Fcty. Mgr.-Sales Mgr.; W. Gedeckie, Prod. Mgr. Chas. Pollock, Gen. Supt.; Ed. Groff, Master. Mech.; Al. Harrison, Pur. Agt.	2176 W. 3rd St.
U	PEERLESS AUTO MACHINE CO., THE J. May, Pres.-P. A.; L. F. Schulze, G. M. P. A. Supt.	1977 W. 77th St.
BB-JJ-LL-G	PEERLESS DRAWN STEEL CO. John F. AuWerter, Dist. Sales Mgr.	Citizens Bldg. (Wks. Massillon, O.).
E	PEERLESS MOTOR CAR CO., THE R. H. Collins, Pres.-G. M.; G. H. Layng, V. P.-Fcty. Mgr.; F. A. Trester, Treas.; B. H. Anibal, Ch. Engr.; A. L. Misch, Gen. Supt.; W. R. McClenaghan, Supt. Main.; D. A. Burke, Sales Mgr.; A. C. Earhart, P. A.	93rd & Quincy
U	PEERLESS NUT CO., THE W. A. Stevens, Pres.; G. M.-P. A.; W. F. McNamara, Gen. Supt.	4300 Perkins Ave.
K	PENN BRASS MFG. CO., THE M. W. Bernstein, Secy.-Gen. Mgr.-Pur. Agt.	4812 Superior Ave.
DD-E	PENNSYLVANIA PISTON RING CO., THE Ely Bramson, Pres.-G. M.-P. A.; C. H. C. Beakes, V. Pres.; Ira Saks, S. T. Sales Mgr.; N. T. Sawdey, Ch. Engr.	203 St. Clair Ave. N. E.
BB-G	PENNSYLVANIA SEABOARD STEEL CORP. D. B. Carson, Dist. Mgr. Sales.	Swetland Bldg.
DD-U	PERFECTION AUTOMATIC MACH. CO. Adele H. Tirohn, Pres.-P. A.; Ralph H. Clark, V. P.	2562 E. 93rd St.
DD-H	PERFECTION AUTO PARTS CO., THE C. J. Hays, Pres.; J. L. Black, V. P.-G. M.; T. H. Lamb, S. T.; Edw. Mentges, Gen. Supt.	410 Lakeside Ave. N. W.
E-GGG	PERFECTION HEATER & MFG. CO., THE W. A. C. Smith, Pres.; C. S. Pelton, V. P.-G. M.; F. D. Kellogg, Secty.-Treas.; D. Martin, Ch. Engr.; G. R. Barr, P. A.; H. P. McWilliams, Mgr. Dist. Sales; S. V. Rose, Sales Engr.; E. L. Jones, Equip. Sales; G. W. Rouvel, Prod. Mgr.; L. S. Peck, Fcty. Mgr.	6545 Carnegie Ave.
DD-U-E	PERFECTION PARTS MFG. CO. A. E. Wolf, Treas.-G. M.-P. A.; M. Dreher, Secy. Supt.	2401 Superior Ave. N.W.
YY	PERFECTION RUBBER CO., THE E. A. Noll, Pres.; L. J. Johnson, V. P. Fcty. Mgr.; A. D. Wismar, S. T.-P. A.-Sales Mgr.	2097 Columbus Rd.
E-M	PERFECTION SPRING CO., THE D. C. Swander, Gen. Mgr.; M. M. McIntyre, Fcty. Mgr.; B. Blair, Ch. Engr.; M. W. Wimmer, Prod. Mgr.; A. Hoefflinger, M. M.; R. W. Frey, Pur. Agt.; H. E. Figgie, Sales Mgr.	E. 65th & Central Ave.
V	PERFECTION TRAILER & MFG. CO. Morris Schwartz, Pres.; A. L. Hohlfelder, S. T. P. A. G. M.	1473 W. 110th St.
DD-E-NN	PETERS MCH. & MFG. CO., THE T. J. Smith, Pres.; E. A. Wales, V. P.-G. M.; C. J. Perrier, Secty.-P. A.; J. A. Zimmer, Treas.; S. L. Laughlin, Ch. Engr.; C. R. Griffiths, Prod. Mgr.; F. A. Braun, Fcty.-Mgr.	7320 Madison Ave.
DD-B-II	PFahl MACHINE & TOOL CO. R. T. Pfahl, Prop.-P. A.-Supt.	718 Frankfort Ave. N. W.
BB-DDD	PHELPS GUARDANT TIME LOCK SERVICE Robert E. Murphy, G. M.; Arthur J. Yarell, Sales Mgr.; Wm. Breeler, Gen. Supt.	1514 Prospect Ave.
B	PHOENIX ICE MACHINE CO., THE A. Novotny, V. P.-Fcty. Mgr.-Ch. Engr.; H. H. Jeck, Secty.-P. A.; H. E. Bollinger, Treas.-G. M.	2711 Church St.
DD-II	PICHLER, JOHN CO. John Pichler, Prop.	4411 Superior Ave.
G	PICKANDS-MATHER CO., THE Firm Members—Samuel Mather; H. G. Dalton; Harry Coulby; H. S. Pickands; G. H. Beaumont; G. D. Cameron; J. C. McLaughlin; A. S. Mather; N. B. Prentice, P. A.	General Offices—Western Reserve Building

Pioneer Portable Electric Drills and Grinders

TO GET THE RIGHT TOOL ON THE JOB

Call Main 2781

G. W. LEERS, Distributor

For Louisville Electrical Mfg. Co.

342 Engineers Bldg.



"It Will Do the Work"

CLEVELAND

Better Methods



Better Die Castings

THE SUPERIOR DIE CASTING COMPANY

CLEVELAND

Limitations of space, as well as our intimate responsibility to our patrons, has enforced on us the adoption of a highly selective policy governing admission to our advertising columns. We are in a position, therefore to recommend our advertisers, listed here, as entirely worthy of your confidence and consideration.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
R	PIFER ELECTRIC REPAIR & MFG. CO., THE A. A. Pifer, Pres.-G. M.-P. A.; W. J. Rennison, V. P.-Supt.; H. Clark, S. T. Asst. Pur. Agt.	1392 E. 43rd St.
G-K	PIONEER ALLOY PRODUCTS CO. Wm. H. Smith, Pres.-G. M.; F. E. Cook, V. P.; Walter Daly, S. T.; C. M. Campbell, Gen. Supt.	16601 Euclid Ave.
A-B	PIPE MACHINERY CO., THE Wm. C. Benninghoff, Pres.-Treas. G. M.; J. A. Boyden, V. P.; W. C. Goosset, Sec.-P. A.; C. H. Rickey, Ch. Engr.; W. W. Ohlemacher, Supt.	930 E. 70th St.
BB-X-H-K	PITTSBURGH VALVE FDTRY. & CONST. CO. Henry W. Wilson, Dist. Mgr.	Kirby Bldg. (Wks. Pgh., Pa.)
ZZ	PLOTZ, WM. IRON WKS., THE George Plotz, Pres.-G. M.-P. A.	411 Champlain Ave.
O	PORTER, G. H. STEEL TREATING CO. George Porter, Prop.-P. A.; J. D. Myers, Prop.	2414 Superior Ave. N. W.
VV	POTTER ACME MFG. CO., THE G. M. Potter, Pres.-Pur. Agt.; W. A. Neff, Treas.; Jos. Kalisky, Secy.; Louis Sweningson, Fcty. Mgr.	912 Champlain Ave.
BB-NN	POWER PLANT SUPPLY CO., THE Wm. E. Berrington, Sales Mgr.	707 Canal Rd.
BB-A-B-II-KK	PRATT & WHITNEY CO. B. A. Tozzer, Dist. Mgr.; J. J. Hebor, Mgr. (Small Tool Dept.)	730 Superior Ave. N. W.
DD-II	PROGRESSIVE MACHINE & TOOL CO. Arthur Orinski, G. M.-Supt.; L. E. Poirier, Ch. Enf.	111 Fountain Ct.
D-DD-II	PROGRESSIVE STAMPING CO., THE Floyd E. Stinson, Pres. G. M.-P. A.	1706 E. 38th St.
H-DD-X	PROOF MACHINE & BRASS FOUNDRY CO. John Pracher, Pres.-P. A.	936 E. 72nd St.
FF-S	RAIL WELDING & BONDING CO. E. R. Alexander, Pres.; G. A. Kirkendale, V. P.-Sales Mgr.; A. M. Austin, Secty.; W. E. Traster, Treas.; O. W. Bricker, Ch. Engr.; H. C. Jones, P. A.; J. P. Copland, Fcty. Mgr.	1615 Collamer Ave.
U-E	REFLEX IGNITION CO., THE C. W. Fenner, Pres.-Treas.-G. M.-P. A.; E. W. Farr, V. Pres.; J. A. Fenner, Secy.; R. E. Rummel, Supt.	3068 W. 106th St.
H-X-DD	REGAR BRASS MFG. CO., THE Nathan Regar, Pres.; D. M. Altman, V. Pres.; Joseph Regar, Secy.-Treas.-Pur. Agt.	1523 E. 45th St.
QQ-ZZ	REISTER & THESMACHER CO., THE A. E. Reister, Pres.; Geo. Thesmacher, V. Pres.-Treas.; T. E. Burt, Fcty. Mgr.; Chas. Motts, Fcty. Mgr.; Chas. Fisher, Pur. Agt.	1512 W. 25th St.
GGG	(Reliable Div.) AMERICAN STOVE COMPANY H. C. Fritz, Gen. Mgr.	1787 E. 40th St.
R	RELIANCE ELECT. & ENGR. CO. C. L. Collens, Pres.; H. M. Hitchcock, V. P.-G. M.; C. V. Putnam, Secty.; H. C. Deckard, Ch. Engr.; J. C. Davis, P. A.; Charles R. Williams, Fcty. Mgr.	1088 Ivanhoe Rd.
K	RELIANCE GAUGE COLUMN CO., THE J. R. Brown, G. M.-Supt.-P. A.; F. M. Jones, Ch. Engr.	5902 Carnegie Ave.
K	REPUBLIC BRASS COMPANY E. H. Blywise, Pres.-G. M.; J. Pollock, Secty.-P. A.; A. S. Deutsch, Treas.; P. Richards, Gen. Supt.	1623 E. 45th St.
BB-R	REPUBLIC ELECTRIC CO. L. Griesser, Pres.; A. C. Kinzel, V. P.; H. W. Allen, S. T.; Arthur Williams, P. A.	1740 Chester Ave.
BB-JJ-G	REPUBLIC IRON & STEEL CO., THE W. E. Collier, Dist. Sales. Mgr.	Hanna Bldg. (Wks. Youngstown, O.)
G-ZZ	REPUBLIC STRUCTURAL IRON WKS. CO., THE I. T. Kahn, Pres.-G. M.-Treas.; Jos. Lehman, Secty. Sales; K. Davidson, Comptroller; J. F. Maine, Ch. Engr.; F. W. Ream, P. A.; R. J. Dickey, Fcty. Mgr.; J. D. Coburn, Gen. Supt.	1290 E. 53rd St.
BB-I-KK	REPUBLIC SUPPLY CO., THE E. E. Lenarz, Pres.; B. V. Selby, G. M. Sales P. A.	408 Frankfort Ave. N. W.
R-EE-FF	REVOLVING TRANSFORMER CO. J. C. Lincoln, Pres.-G. M.	2400 Woodland Ave.

ESTABLISHED 1910

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
DD-II-B-U	REX PRODUCTS CO., THE H. G. Schowe, Pres.-G. M.-P. A.	5606 Euclid Ave.
K	RICKERSBURG BRASS CO., THE E. Rickersburg, Pres.-Treas.; L. Rickersburg, V.-Pres.	Perkins Ave. & E. 37th St.
BB-A-B-II	RICKERT-SHAFER CO. Edward T. Oliver, Sales Mgr.	1383 Gladys Ave. (Works, Erie, Pa.).
DD-II	RIVER MACHINE & MFG. CO. A. Grimes, Prop.-Supt.-P. A.	236 Prospect Ave. N. W.
BB-Y	ROBBINS CONVEYOR BELTING CO. C. K. Sheridan, Dist. Mgr.	(New York City) Leader-News Bldg.
D-K	ROBERTS STEAM SPECIALTY CO. Jos. L. Osterheldt, Pres.; Ch. Engr. G. M.; W. D. Hirsch, V. P.; Geo. Hamminck, Sec.-P. A.	5318 St. Clair Ave.
BB-BBB	ROCKWELL, L. D. COMPANY J. A. Guyer, Dist. Mgr.	Union Nat'l Bldg.
L-R	ROGERS ELECT.-LABORATORIES CO., THE F. J. Langer, Pres.; W. W. Drake, V. P.; P. C. Greenwell, S. T.-P. A.-Supt. L. J. Haessly, Sales Mgr.	2015 E. 65th St.
II-NN	ROSS MFG. CO., THE W. D. Bartlett, V. P.; Frank DeWitt, Treas.-G. M.-P. A.	3160 W. 106th St.
CC	ROTARY MACHINE SALES CO. ROUND, DAVID & SON L. D. Round, Pres.; L. D. Cull, Gen. Mgr.-Supt. T. E. Round, P. A.;	Schofield Bldg. (See King Coil Mfg. Co.). Stop 2—A. B. C. Ry.
K	ROYAL BRASS MFG. CO., THE S. J. Regan, Pres.; E. H. Gehlbach, V. P.; C. W. Brennan, Treas.-G. M.; F. J. Ryan, Secty.	1418 E. 43rd St.
DD	RUPP MACHINE CO., THE John Rupp, Prop.-G. M.-P. A.	1734 Columbus Rd.
GGG	RUSS MFG. CO., THE Judge E. J. Blandin, Pres.; P. W. Schmitt, Secy.; W. H. DuRoss, Treas.; J. Schlenker, Fcty.-Mgr.; C. H. Huber, Pur. Agt.	5700 Walworth Ave.
DD-EE	RUSSELL- McDONALD ENGR. CO., THE Wm. Russell, Pres.-G. M. Supt. P. A.; James Russell, V. P.-P. A.; Alex McDonald, S. T.	1276 W. 4th St.
AAA	RUSTICIDE COMPANY, THE George N. Dobie, Pres.-Treas.; F. W. Robinson, V. P.; H. O. Yoder, Secy.; Don. W. Dobie, Sales Mgr.	412 Frankfort Ave.
BB-E	S. K. F. INDUSTRIES, INC. W. F. Temple, Dist. Mgr.	Guardian Bldg.
A-B-DD-II-OO	S-P MANUFACTURING CO., THE P. D. Stafford, Pres.-F. Mgr.; Ch. Engr.; I. H. Putnam, S. T.-P. A.-Sales; J. E. Olson, Sales Engr.	872 E. 72nd St.
DD-B-GG-H	SABIN MACHINE CO., THE H. B. Sabin, Pres.-Supt.; O. C. Sabin, S. T. Engr.-G. M.; A. E. Dorod, P. A.	6536 Carnegie Ave.
DD-II	SACKMAN STEEL STAMP CO. H. L. Sackman, Pres.-P. A.; F. A. Sackman, V. P.; C. M. Ress, S. T.	24 Noble Ct.
BB	SAFE-GUARD CHECK WRITER CO., INC. P. B. Stitt, Dist. Mgr.	Sloan Bldg.
L-BB	SAFETY EQUIPMENT SERVICE CO., THE B. W. Nuitt, Pres.-Gen. Mgr.	1104 Hamilton Ave.
GGG-K	SANDS MFG. CO., THE Lewis Sands, Pres.; J. M. Sands, V. Pres.; G. Sands, Secy.-Treas.-Pur. Agt.	5407 Sweeney Ave.
QQ	SANYMETAL PRODUCTS CO., THE R. F. Carpenter, Pres.-Treas.-G. M.-P. A.; James McCrea, V. P. C. J. Daugherty, Secty.-Sales Mgr.; T. F. Anderson, Fcty. Mgr.	978 E. 64th St.
MM	SAW & KNIFE SPECIALTY CO., THE H. G. Mackenzie, Pres.-Sales Mgr.; Walter E. Myers, V. P.; J. C. Mitchell, S. T.-Fcty. Mgr.-P. A.	1330-36 St. Clair Ave.
BB-MM	SAW SALES CO., THE Wm. J. Bushea, Pres.; R. S. Beaver, Treas.	1368 W. 3rd St.

Why You Should Use Mo-Grite Oil

Mo-Grite, is a petroleumized product, compounded into oils and greases for the lubricating properties it possesses. It has been tested to 7700° Fahrenheit, of heat, and to the most extreme cold test available without showing any effect upon it.

The oil is the highest grade paraffine-base obtainable. This, together with the extremely high lubricating qualities of Mo-Grite gives you consistent and economic lubrication under the most trying conditions,---where extreme heat or cold are encountered, or where acid fumes must be combated.

We will be glad to recommend the proper grade of Mo-Grite Oil to overcome your difficulties.

The Mo-Grite Oil Company

Phone Eddy 413

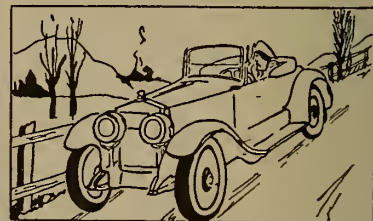
1217 East 138th Street CLEVELAND, OHIO

Mo-Grite

COMPOUNDED INTO OILS
AND GREASES FOR
MACHINERY



FOR AUTOMOBILES



FOR TURBINES



Mo-Grite

LUBRICATING OILS & GREASES

Mention "OHIO INDUSTRIAL DIRECTORY" When Writing

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
T	SAWYER GEAR & MFG. CO., THE Wm. R. Sawyer, Prop.-Supt.-P. A.	5122 St. Clair Ave.
F	SCHERER, WM. MFG. CO. Wm. Scherer, Prop.-P. A.	1390 E. 40th St.
F-II	SCHRANER, A. P. A. P. Schraner, Prop.-P. A.	Payne Ave. & E. 33rd St.
GGG	SCIENTIFIC HEATER CO., THE O. J. Kuenhold, Pres.-G. M.-Ch. Engr.; O. F. Schowalter, V. P.; C. M. H. Kaercher, Secty.-P. A.; Fred Myers, Gen. Supt.	2100-50 Superior Via. N. W.
AAA-L	SCIENTIFIC LABORATORIES CO., THE James R. Gloyd, Pres.-Treas.; Karl J. Holliday, V. P.; H. C. Boyd, Secty.-P. A.	2533 Broadway
DD	SCOTT-FETZER MACHINE CO., THE G. H. Scott, Pres.-G. M.; C. S. Fetzer, V. P.-Treas.; H. N. Williams, P. A.; L. W. Pardee, Gen. Supt.	W. 114th & Locust
DD	SEIBERT MACHINE CO. H. Seibert, Prop.; P. A. F. Seibert, Prop.; J. Seibert, Prop.	1730 E. 47th St.
AAA-HHH	SERO SPECIALTY COMPANY C. L. McCarthy, Gen. Mgr.-Pur. Agt.	2860 E. 84th St.
F	SHAW, GEORGE E. & SON CO. A. E. Shaw, Pres.-G. M.-P. A.; R. O. Carver, Secty.	1362 E. 3rd St.
BB-C-Z	SHAW, L. S. & COMPANY L. S. Shaw, Pres.-G. M.	5716 Euclid Ave.
BB-PP-WW	SHEET METAL MCHRY. CO. C. W. Gerdum, G. M. P. A.	Commercial Bldg.
BB-YY-Z	SHERIDAN, C. K.	Leader-News Bldg.
D	SHERWIN-WILLIAMS CO., THE W. H. Cottingham, Pres.; G. A. Martin, V. Pres.; H. D. Whittlesey, V. Pres.; S. P. Fenn, V. Pres.-Secy.; J. E. Errington, Pur. Agt. (Mechanical).	601 Canal Rd.
KK-II	SHIELDS CUTTER CO., THE F. S. Shields, Pres.-G. M.; L. M. Lucius, Secty.-P. A.; D. A. Uffendell, Prod. Mgr.	18511 Euclid Ave.
E	SIMMONS MFG. CO., THE J. W. Simmons, Pres.; S. A. Rogers, V. Pres.; C. F. Groth, Secy.-Treas.; C. L. Peterson, Auditor; E. B. Coddington, Gen. Supt.	3405 Perkins Ave.
L	SIMPLEX PILE CO.	Pittsburgh, Pa. (See Morris & Reynolds).
L	SINCLAIR, JOHN	Columbia Bldg.
EE	SINGER HIGHLANDS WELDING CO., THE W. P. Haines, Pres.-Fety. Mgr.; R. P. Ernst, V. P.; E. M. Highlands, Secty. T.; G. M.; P. A.	8713 Cedar Ave.
A-B-H	SLY, W. W. MFG. COMPANY Sidney C. Zessy, Pres.; Frank Klatt, Gen. & Fety. Mgr. B. P. Kaiser, P. A.	4700 Train Ave.
DD-E	SMITH BEARING & MFG. CO., THE F. L. Smith, Pres.-Gen. Mgr.; Pur. Agt.	1970 E. 66th St.
BB-H	SMITH FACING & SUPPLY CO., THE G. W. Fleig, Pres.; F. R. Fleig, V. Pres.; J. S. Smith, Secy.	1857 Carter Rd.
K	SMOLENSKY VALVE CO. INC., THE Michael Smolensky, Pres.-P. A.; Mary Smolensky, V. P.; A. G. Smolensky, Secy.-Prod.	8202 Clark Ave.
BB-A-W-X	SOUTHWARK FDRY. & MACH. CO., THE Stewart Bollinger, Loc. Mgr. Sales.	Swetland Bldg.
T-DD	STAHL GEAR & MACHINE CO., THE G. F. Stahl, Pres.-Supt.-P. A.; W. P. Stahl, Secty.-G. M.-P. A.	1390 E. 40th St.
BB-PP-S	STAMETS, WM. K. George D. Miller, Dist. Mgr.	Kirby Bldg. (M. O. Pittsburgh, Pa.)
BB-P-Z	STAMP, CHARLES E. CO., THE Charles E. Stamp, Pres.; F. F. Seaman, Sales Mgr.; Ross E. Annis, Sales Engr.	Sixth-St. Clair Bldg.
X-H	STANDARD BRASS FDRY. CO., THE A. J. Griffa, Pres.; Chas. Rosenblatt, V. P.; A. J. Bloom, S. T.-G. M.; F. J. Mental, P. A. M. J. Mental, Fety.-Mgr.-Supt.	990 E. 67th St.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
H-X-S	STANDARD CAR WHEEL CO., THE Chas. A. Brayton, Pres.; H. S. Sherman, V. Pres.-Treas.; W. B. Gorman, Secy.; H. H. Schneider, Supt.-Pur. Agt.	6704 Bessemer Ave.
BB-Z	STANDARD CONVEYOR CO. H. C. Christiansen, Sales Mgr.	Electric Bldg. (Wks. N. St. Paul, Minn.)
E-M-DD	STANDARD EQUIPMENT CO., THE G. G. G. Peckham, Pres.; Oliver J. Ashman, V. P.-G. M.; J. A. Curtis, Secty.; H. A. Tremain, Treas.; D. F. Domizi, Ch. En. Supt.; E. L. Kremer, P. A.	3170 W. 106th St.
HHH	STANDARD OIL CO., THE Main Dist. Stations—Cleveland, Columbus, Cincinnati, Toledo. Refineries at Cleveland and Toledo. A. P. Coombe, Pres.; W. H. Foster, V. Pres.; C. G. Taplin, 2nd V. Pres.; M. G. Vilas, Secy.-Treas.; Chas. A. Sherwood, Pur. Agt.	East Ohio Gas Bldg.
E	STANDARD PARTS CO., THE Frank A. Scott, Receiver.; P. A. Connolly, Secy. See—The Bock Bearing Co., Toledo, O.; The Eaton Axle Co., Cleveland, O.; The Perfection Spring Co., Cleveland, O.; The Standard Welding Co., Cleveland.	Walnut & E. 11th St.
F	STANDARD PATTERN WKS. E. J. Gutman, Pres.-G. M.-Supt.	5333 St. Clair Ave.
B-Z-TT-SS	STANDARD SAND & MACH. CO., THE John Boughton, Pres.; Harry E. Boughton, V. P.-G. M.; Geo. H. Billman, Secty.; P. E. Lacey, Treas.-P. A. B. W. Roberts, Fcty. Mgr.	5151 St. Clair Ave.
B-R	STANDARD SEWING MACHINE CO., THE H. W. Corning, Pres.-Treas.-G. M.; C. A. Otis, V. P.; H. B. Knapp, Secty.; W. S. Jones, Ch. Engr.; C. H. Pilcher, Fcty. Mgr.; J. Diehl, Gen. Supt.; F. W. Ehrich, Gen. Supt.; Prod. Mgr.; W. A. Gerstmann, P. A.; O. J. Stewart, Sales Mgr.	6402 Cedar Ave.
II-KK	STANDARD TOOL CO., THE C. W. Bingham, Pres.; E. E. Northway, Secty.; H. A. Higgins, Gen. Mgr.; H. C. McKean, Fcty. Mgr. Supt.; D. L. Northway, P. A.; Herman Wills, Prod. Mgr. Thomas Bascom, Ch. Engr.-M. M.; R. T. Lane, Sales Mgr.	6900 Central Ave.
LL-E	STANDARD WELDING CO., THE John Younger, Gen. Mgr.; S. Van Dellan, Fcty. Mgr.-Gen. Supt.; Otto Jobski, Ch. Engr.; R. D. Malm, Prod.-Mgr.; P. O. Dorman, Pur. Agt.; W. H. Lolley, Sales Mgr.	W. 73rd St. & N. Y. C. R. R.
N	STANDARD WIRE SPRING CO., THE G. W. Decker, Gen. Supt.-Pur. Agt.; J. E. Anderson, Supt.	3910 Superior Ave.
DD-II	STAR MACHINE & TOOL CO. J. J. Schurger, Prop.-Supt.-P. A.	433 Champlain Ave.
BB-C-K-NN	STEAM EQUIP. MFG. CO. C. D. Kester, Dist. Mgr.	Leader News Bldg. (Wks. Pitts, Pa.)
E	STEARNS, F. B. CO., THE George W. Booker, Pres.-Treas.-G. M.; P. M. Booker, V. P.; M. L. Henschen, Secty.; George J. Batzer, Fcty. Mgr.-Prod.; W. E. England, Ch. Engr.; E. J. Connor, P. A. George L. Booker, Sales Mgr.; C. M. Caplan, Asst. P. A.; F. J. Morrisette, M. M.	Euclid & Lakeview Ave.
M-S	STEEL CAR FORGE CO., THE Geo. I. Allen, D. Mgr.	Kirby Bldg. (Wks. Pittsburgh, Pa.)
BB-QQ-ZZ	STEEL FABRICATING CORP., THE C. N. Pinco, Sales Mgr.	Union Bldg.
O	STEEL IMPROVEMENTS & FORGE CO., THE W. E. Byrnes, Pres.-P. A.; W. C. Whyte, Secty.-G. M.; J. McCracken, Foreman; C. E. Bracken, Ch. Engr.; J. F. Rice, Supt.	5003 Windsor Ave.
E-O-U	STEEL PRODUCTS CO., THE C. E. Thompson, Pres.; W. D. Bartlett, V. P.; W. M. Albaugh, Asst. to Pres.; C. W. Miller, G. M.; W. T. Spire, Ch. Engr.; E. A. McCabe, Supt.; E. C. Williams, P. A. E. A. Maher, Asst. P. A.	2206 Clarkwood Rd.
E-K	STEEL SOCKET SHAFT END. CO. R. F. Trimmer, Prop.	1432 E. 49th St.
R	STERLING ELECT. CORP., THE Antonio Longoria, Pres.-Treas.-Supt.; P. A.-Sales Mgr. Harry G. Welfare, V. P.; S. J. Regan, Secty.	2711 Church Ave.
E	STERLING-KNIGHT MOTOR CO., THE P. H. Withington, Pres.-Treas.; J. G. Sterling, V. P.-G. M.-P. A.	E. 134th & Coit Rd.

CLEVELAND, CUYAHOGA COUNTY, OHIO

R-FFF-E	STERLING MFG. CO., THE R. E. Tresise, Pres.-Gen. Supt.-Engr.; W. M. Scott, S. T.-P. A.-G. M.; W. W. Dowdell, Sales Mgr.; L. E. Wilson, Asst. P. A.	2831 Prospect Ave.
M-E	STERLING SPRING CO. J. C. Monteith, Pres.; Geo. H. Beaumont, V. P.-Treas.-Fcty. Mgr.	2148 Scranton Road
EE-GG	STOCK IRON & WELDING CO. A. T. Stock, Prop.-Supt.	2414 Superior Ave. N. W.
L-E	STOVER SIGNAL ENGR. CO., THE P. A. Stover, Pres.-P. A.; Eugene Bloomberg, Secty.-Treas.; Paul H. Sampliner, Sales Mgr.	4900 Euclid Ave.
BB-XX	STOWE-FULLER CO., THE C. B. Stowe, Pres.; J. H. Fuller, V. Pres.; C. B. Kapitzky, Secy.-Treas.; C. W. Keplinger, Asst.-Treas.	Kirby Bldg.
B-DD-II	STRAEHLE, F. W. & CO. F. W. Straehle, Pres.-G. M.-Supt.	321 Frankfort Ave. N. W.
BB-DDD	STROMBERG ELECTRIC CO. Allen W. Spicer, Dist. Mgr.	Union Bldg.
D	STRONG, H. M. METAL PRODUCTS CO., THE H. M. Strong, Pres.-P. A.; E. H. Arnold, Gen. Supt.	1011 Power Ave.
BB-I-PP-OO-NN R-K-CC	STRONG, CARLISLE & HAMMOND CO., THE E. E. Strong, Pres.; R. H. Carlisle, V. P.; H. W. Strong, Secty.; L. J. Hammond, Treas.-G. M.; Wm. McClelland, Sales Mgr.; F. H. Reed, P. A.; C. F. Miller, Asst. P. A.; D. E. Parsons, Supt.	326-34 Frankfort Ave.
BB-OO-QQ	STURDEVANT, B. F. & CO. J. D. Chase, Dist. Mgr.	Guardian Bldg.
BB-C-NN-OO	SULLIVAN MACHINERY CO. R. T. Stone, Dist. Mgr. Sales.	Kirby Bldg. (Wks. Chicago, Ill.).
H-X	SUPERIOR DIE CASTING CO., THE H. H. Weiss, Pres.; A. E. Weiss, G. M.-P. A.; Max Berger, V. P.-Supt.	872 E. 72nd St.
H-X	SUPERIOR FOUNDRY CO., THE Julius Feiss, Pres.; L. T. Miller, V. Pres.; S. P. Schloss, Secy.; C. N. Miller, Treas.; George Feiss, Gen. Mgr.; J. Sands, Gen. Supt.; W. H. Casson, Pur. Agt.	3542 E. 71st St.
U	SUPERIOR SCREW & BOLT CO., THE N. T. Jones, Pres.; M. J. Riley, V. P.-Fcty. Mgr.; W. J. Hayes, S. T.-P. A.; George C. Hunter, Gen. Supt.; Frank J. Bierbrier, Ch. Engr.	E. 93rd & Aetna Road
II	SUPERIOR STEEL STAMP CO. Geo. H. Bracht, Pres.-G. M.; Wilbert Sell, S. T.-P. A.	1220 W. 6th St.
BB-H-JJ-LL-G	TACONY STEEL COMPANY D. B. Carson, Dist. Mgr. Sales.	Swetland Bldg. (Wks. Tacony, Pa.).
BB-G	TAYLOR, N. & G. CO. George I. Allen, Dist. Sales Mgr.	Kirby Bldg. (Wks. Phila. Pa.)
H-X	TAYLOR & BOGGIS FDRY. CO., THE I. T. Kahn, Pres.-G. M.; Benj. F. Fiery, Secty.; Thos. L. Sidlo, Treas.; K. Davidson, Comptroller; F. W. Ream, P. A.; W. L. Patton, Supt.; W. H. Clemes, Supt.; J. A. Parker, Sales Mgr.	1290 E. 53rd St.
DD-A-B	TAYLOR MACHINE CO., THE Wm. W. Taylor, Pres.-G. M.; R. T. Maskell, S. T.-P. A.	7804 Carnegie Ave.
BB-G-JJ-LL	TAYLOR-WHARTON IRON & STEEL CO. J. R. Smith, Sales Engr.	Hickox Bldg.
R-E	TEAGLE COMPANY, THE F. H. Teagle, Pres.-G. M.-P. A.; C. E. Pearson, Ch. Engr.-Supt.	1125 Oregon Ave.
DDD	TELE-CALL COMPANY, THE C. F. Mead, Pres.-Treas.; J. F. Coulston, Secty.-Sales Mgr.; Gould Williams, Gen. Mgr.-P. A. L. E. Richmond, Fcty. Mgr.	5604 Cedar Ave.
E	TEMPLAR MOTORS CO., THE M. F. Bramley, Pres.-G. M.; W. M. Pattison, V. P.; W. O. Cooper, Secty.; D. C. Reed, Treas.; J. H. Bramley, Fcty.-Mgr.; A. M. Dean, Ch. Engr.; A. G. Johnson, P. A.	Templar Park
GGG	TINNERMAN STOVE & RANGE CO. A. H. Tinnerman, G. M.; Ralph Cross, Prod. & P. A.	2038 Fulton Rd.
BB-K	TOMLINSON STEAM SPEC. CO. A. E. Tomlinson, Prop.	1597 St. Clair Ave.

CLEVELAND, CUYAHOGA COUNTY, OHIO		
Class	Firm and Personnel	Address
E	TORBENSON AXLE CO., THE Robt. Enoes, V. Pres.; Fred Buchda, Secty.-Treas.; G. Smith, Fcty. Mgr.; Vincent Cada, P. A.; G. W. Carlson, Ch. Engr.; George Beale, Prod. Mgr.; Arthur Dixon, Sales Mgr.; C. Pettie, Asst. P. A.; W. J. Fowler, Health Dir.	1115 E. 152nd St.
S-V	TOWMOTOR COMPANY, THE F. W. Sears, Pres.; L. M. Sears, V. P.-G. M.-P. A.; Ernest McGeorge, Secty.; A. G. Simon, Treas.	1226 E. 152nd St
GGG	TRENKAMP STOVE & MFG. CO. H. J. Trenkamp, Pres.-Treas.; Henry Trenkamp, Secy.- Fcty.-Mgr.; P. A.	9806 Quincy Ave.
U	TRIPLEX SCREW COMPANY A. F. Weber, Pres.-Supt.:P. A.	6112 Central Ave.
BB-G-JJ-LL	TRUMBULL STEEL CO. Warner A. Peck, Dist. Sales Mgr.	Hanna Bldg. (Works Warren, O.).
L-B	TRUNDLE, GEO. T. JR. ENGINEERING CO., THE George T. Trundle, Jr., Pres.; Neola Van Sittert, S. T.; W. W. Johnson, Ch. Engr.	Card Bldg.
BB-QQ-ZZ	TRUSCON STEEL CO., THE Edw. G. Mathewson, Dist. Mgr.	4614 Prospect Ave. (M. O. Youngstown, O.)
BB-M-P-C-A	TUCKER-DAY COMPANY D. S. Tucker, Dist. Sales Mgr.	Natl. Bldg.
OO	TURBINE AIR TOOL CO., THE George L. Kraber, Pres.-G. M.; F. W. Nichols, V. P.-Sales; Thomas Zimmerman, Supt.	710 Huron Road
R-OO	TURNER AUTOMATIC FAN & MFG. CO., THE George W. Turner, Pres.; S. Bowie, V. P.; Charles A. Walker, Secty.; M. Jones, Treas.; Wm. Crosby, G. M.	7500 Bessemer Ave.
N-ZZ-H	TYLER, W. S. COMPANY, THE P. Patterson, Pres.-G. M.; C. Zimmerman, S. T.; H. Steffen, Fcty. Mgr. Supt.; H. G. Coates, P. A.	3615 Superior Ave.
II-KK-DD-FFF	ULMER, J. C. CO., THE George Billman, Pres.; Noyes P. Gallup, V. P.; J. C. Ulmer, S. T.; E. R. Tozer, Mgr. A. S. Innes, Gen. Supt.; F. D. Knepper, P. A.	1791 E. 38th St.
BB-JJ	UNION ELECT. STEEL CO. George E. Otte, Sales Rep.	1836 Scranton Rd. (Wks. Carnegie, Pa.).
L-B-DD-Y-Z	UNION ENGINEERING CO., THE J. N. Hahn, Pres.; G. J. Hewlett, V. P.-G. M.-P. A.; Clayton Crouch, Sec.-Engr.	Cuyahoga & W. 4th St.
BB-C-G	UNION IRON WORKS Eugene Smith, Sales.	Kirby Bldg. (Wks. Erie, Pa.).
	UNION TRUST CO., THE John Sherwin, Chairman Board; J. R. Nutt, Pres.; J. H. Wade, Chairman Trust Comm.; Executive Managers: Geo. A. Coulton, Sr. V. Pres.; J. R. Kraus, V. Pres.; Wm. Baldwin, V. Pres.; C. L. Bradley, V. Pres.	M. O. Citizens Bldg.
BB-JJ-LL-G	UNITED ALLOYS STEEL CORP. Wm. Forbes, Dist. Mgr. Sales.	Swetland Bldg. (Works, Canton, O.).
K	UNITED BRASS MFG. CO. Wm. J. Schoenberger, Managing Partner; E. M. Rogert, Treas.; C. F. Schultis, Fcty. Mgr.; Fred Schulder, Ch. Engr.; C. R. Foster, Sales Mgr.; Fred Weik, P. A.	3844 Hamilton Ave.
D-O-DD-LLL	UNITED STAMPING & MACH. CO., THE G. W. Furth, Pres.-G. M.; W. H. Kelly, V. P.-Treas.; D. R. Wilkin, Secty.; J. S. Poppel, Fcty. Mgr.	E. 168th & Waterloo Road
OO	U. S. AIR COMPRESSOR CO., THE R. L. Bacher, Pres.-Ch. Engr.; W. C. Smith, V. P.-G. M.; A. A. Gelinas, Supt.; L. H. Bacher, P. A.	5300 Harvard Ave.
G-JJ	UNITED STATES ALUMINUM CO. E. M. Chandler, Gen. Supt.; A. B. Wilber, Asst. Supt.; F. K. Terwilliger, Ch. Clerk.-P. A.; W. A. Greff, Master Mech.	1099 Ivanhoe Rd.
BB-R-AA-OO	UNITED STATES ELECTRICAL TOOL CO., THE G. M. Lawrence, Dist. Mgr. Sales.	Bangor Bldg. (Wks. Cincinnati, O.).
D-E-DD	U. S. METAL GOODS CO. Alan Bloch, G. M.-P. A.	5211 Euclid Ave.

"Quick-Set" Blades Can Be Replaced Without Regrinding Or Retruning It To The Factory.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
A-B-H	U. S. MOLDING MACH. CO., THE J. M. Battenzelle, Pres. G. M.; R. W. Gramling, Supt.	968 E. 69th Pl.
P-S-V	UNIVERSAL CRANE CO.	Swetland Bldg. (See Elyria, Ohio).
FFF	UNIVERSAL DRAFTING MCH. CO. C. W. Little, Prop.	1426 W. 3rd St.
E-Y-DD	UNIVERSAL DRIVE SHAFT CO. Fred Peters, Pres.-Supt.; W. H. Thiemer, V. P. G. M.-Ch. Engr.; A. H. Wills, P. A.	5902 Carnegie Co.
BB-E-M-Y	UNIVERSAL MACHINE CO., THE George E. Otte, Sales Rep.	1836 Scranton Rd. (Wks. Bowling Green O.)
BB-CC-N-K	UPSON-WALTON CO., THE J. W. Walton, Ch. Board; O. W. Upson, Pres.; C. H. Mathews, V. Pres.; F. J. Hemler, Secy.; C. R. Doty, Treas.; Thomas Mathews, Pur. Agt.	1310 W. 11th St.
EEE	VALLEY CONTRACTING COMPANY, THE F. M. Schmoldt, Pres.-G. M.; A. W. Schmoldt, V. Pres.; L. C. Kintzler, Secy.-Treas.	1900 Denison Ave.
BB-JJ-LL-G	VANADIUM-ALLOYS STEEL CO. J. H. Caler, Dist. Mgr. Sales.	Union Bldg. (Wks. Latrobe, Pa.)
T-E	VAN DORN & DUTTON CO., THE F. W. Sinram, Pres.-G. M.; Frank Schneider, V. P.; T. E. Leighton, Sect.-P. A. T. G. Hodell, Treas.; F. C. J. Awig, Ch. Eng.; Frank Petznick, Supt.	2978 Woodhill Rd.
AA-OO-A	VAN DORN ELECTRIC TOOL CO., THE F. Schneider, Pres.; T. B. Van Dorn, V. P.; F. H. Zulauf, Secty.-Sales Mgr.; F. W. Sinram, Treas.; E. L. Connell, Ch. Engr.; T. E. Leighton, P. A.; B. W. Sweet, Fcty. Mgr.; L. J. Hengesbach, Gen. Supt.; O. C. Kiehne, Prod. Mgr.	2978 Woodhill Rd.
QQ-ZZ	VAN DORN IRON WKS. CO., THE T. B. Van Dorn, Pres.; H. A. Rock, V. P.; F. G. Smith, Secty.-P. A.-Sales; K. L. Hardy, Treas.; L. J. Baker, Fcty. Mgr.; J. A. Boyden, Prod. Mgr.; Robt. Dunbar, Ch. Engr.; E. Melcher, Asst. P. A.; J. T. Whitehouse, M. M.	2685 E. 79th St.
DD-E-D	VAN LOOZEN MFG. CO., THE F. H. Van Loosen, Pres.-Treas.; J. Verdeber, V. Pres.-Secy.-Supt.-Pur. Agt.	3405 Perkins Ave.
C-QQ-ZZ	VARIETY IRON & STEEL CO., THE L. D. Weaning, Pres.-G. M.; H. E. Baldwin, Ch. Engr.-Fcty. Mgr.; H. J. Bowie, Sales-P. A.	Hamilton & E. 40th St.
D-DD-II	VARIETY MACHINE & STAMPING CO. Otto Kernspecht, Pres.-Supt.; Geo. Kernspecht, V. P.-P. A.	3404 Tate Ave.
K	VICTOR BRASS MFG. CO., THE J. F. McCarthy, Pres.; F. J. Moran, V. P.-Sales Mgr.; N. J. McArath, Sec.-Treas.-P. A. J. Lyons, Gen. & Fcty. Mgr.	6813 Wade Park Ave.
K-D	VIRDEN COMPANY, THE J. C. Virden, Sr., Pres.-G. M.; J. C. Virden, Jr., Secty.-P. A.	2166 Ashland Rd.
D-E-DD	VITAL MFG. CO., THE W. E. Sherbondy, Pres.-Gen. Mgr.; F. C. Dorn, V. Pres.; Geo. F. Kast, Secy.-Treas.; H. Auw, Pur. Agt.; F. Kast, Supt.	7500 Quincy Ave.
M-E	VLCHEK TOOL CO., THE F. J. Vlchek, Pres.-G. M.; C. H. Rock, V. P.-Sales Mgr.; F. S. Macourek, S. T.; E. C. Koster, Fcty. Mgr.; R. E. Affantranger, P. A.	3000 E. 87th St.
E-C	WALKER, H. J. COMPANY H. A. Tremaine, Pres.; Ben. Hopkins, V. P.; G. S. Salzman, Treas.; W. B. Fisher, Fcty. Mgr.; L. A. Saunders, P. A.	E. 131st & Taft Ave.
BB-JJ-LL	WALKER, WM. J. STEEL CO., THE F. B. Walker, Pres.-Treas.-P. A.; Frank F. Donnelly, Secty.-G. M.	1722 Columbus Rd.
BB-A-F-R	WALLACE, J. D. & CO. D. H. Shartle, Dist. Mgr.	Erie Bldg.
H-X	WALWORTH RUN FDRY. CO., THE A. Gerdum, Pres.; W. J. Strangward, V. P.-G. M.; John F. Yochem, Secty.-P. A. W. Seelbach, Treas.	2488 W. 27th St.
BB-G-JJ	WARD'S, EDGAR T. SONS CO. H. F. Jordan, Dist. Mgr.	Union Bldg.
A-B	WARDWELL MFG. COMPANY F. W. Wardwell, Jr., Pres.-G. M.-Ch. Engr.; S. H. Wardwell, V. P.-Prod. & Fcty. Mgr.; S. H. Wardwell, P. A.; Chas. Gylfe, Gen. Supt.	110 Hamilton Ave.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
BB-Z	WARNER ELEVATOR MFG. CO., THE A. B. Connor, Dist. Mgr.	702 Lakeside Ave. N. E.
A-B-II-KK	WARNER & SWASEY CO., THE Ambrose Swasey, Pres.; W. R. Warner, V. P.; L. B. Stauffer, Secty.; P. E. Bliss, Treas.; F. A. Scott, Gen. Mgr.; Adam Herkner, Gen. Supt.; C. H. Kress, P. A.	5701 Carnegie Ave.
BB-A-B-WW	WATERBURY FARRELL FDRY. & MCH. CO. B. R. Lamb, Sales Mgr.	Williamson Bldg. (Wks. Waterbury, Conn.)
DD-II	WEBER, JOHN John Weber, Prop.	615 St. Clair Ave. N. E.
BB-Z	WEBSTER MFG. COMPANY R. G. Freeman, Local Mgr.	Swetland Bldg. (Wks. Tiffin, Ohio.)
U	WEDLER & BLANCHARD MCH. CO., THE A. H. Wedler, Vice Pres.-G. M. P. A.; J. Randa, Supt.	4520 Superior Ave.
K-H-X	WEISS BRASS FDY. & MFG. CO. F. J. Weiss, Prop.; J. F. Weiss, Prop.	5029 St. Clair Ave.
B-DD-II-KK	WELDON TOOL CO., THE Carl Bergstrom, Pres.-G. M.-P. A.	321 Frankfort Ave. N. W.
EE	WELD-WORK MACHINE CO., THE E. W. Gustafson, G. M.-S. T.-Supt.-P. A.	1101 Power Ave.
X-H	WELLMAN BRONZE CO., THE F. S. Wellman, Pres.-Treas.; H. G. Wellman, V. P.-Secty.-P. A.; P. C. Hungerford, Asst. P. A.; K. E. Mitchener, Sales.; J. B. Stayne, Gen. Supt.	6017 Superior Ave.
F-U-DD	WELLMAN PRODUCTS CO., THE W. S. Wellman, Pres.-G. M.-P. A.	1444 E. 49th St.
B-P-X-W-Z-CC	WELLMAN-SEAVER-MORGAN CO. Edwin S. Church, Pres.-G. M.; G. W. Burrell, V. P.-Asst. G. M.; N. R. Fairlamb, S. T.; S. T. Plimpton, P. A.; J. H. Stratton, Engr.; A. E. Gibson, Gen. Supt.	7000 Central Ave.
N-ZZ	WEST END IRON & WIRE WORKS John F. Kruppke, Prop.; Frederick Kruppke, Prop.	3424 W. 46th St.
F	WEST END PATTERN WORKS, THE John Horne, Prop.	2122 W. 96th St.
BB-G-JJ-LL	WEST LEECHBURG STEEL CO. H. D. Cushman, Dist. Mgr. Sales.	Finance Bldg.
H-X-E	WEST STEEL CASTING CO., THE R. H. West, Pres.-Treas. G. M. Fcty. Mgr.; D. P. Lansdowne, V. P.-Secty.; J. B. McGlynn, Gen. Supt.; K. A. Koepf, P. A.; E. C. Pender, Prod. Mgr.	805 E. 70th St.
BB-U	WESTERN AUTOMATIC MACHINE SCREW CO. Don H. Bryant, Loc. Mgr. Sales.	Engrs. Bldg. (Works, Elyria, O.).
DD-II	WESTERN RESERVE MACH. CO. Adolph Wunderlick, Prop.-Supt.	3710 E. 93rd St.
H-X	WESTINGHOUSE MFG. CO., THE A. H. Jones, G. M.-P. A.; C. F. Knowlton, Fcty. Mgr. Supt.	1216 W. 58th St.
BB-AA	WHEEL TRUEING TOOL CO. J. M. Stone, Dist. Mgr.	Engineers Bldg. (M. O. Detroit, Mich.)
E	WHEELER RADIATOR & MFG. CO., THE W. H. Ritter, Pres.; G. E. Wheeler, V. P.-G. M.; E. F. Hafinger, S. T.-P. A.; F. R. Kisslinger, Fcty.-Mgr. Ch. Eng.; B. R. Smith, Gen. Supt.	1637 Collamer Ave.
BB-JJ-LL-G	WHEELING STEEL PRODUCTS CO. D. O. Rice, Dist. Sales Mgr.	Hanna Bldg. (Works, Wheeling, W. Va.).
BB-JJ-LL-G	WHELOCK, LOVEJOY & CO., INC. E. C. Bartlett, Dist. Mgr. Sales.	1802 Columbus Rd.
E	WHITE CO., THE (SALES) Walter C. White, Pres.; Geo. F. Russell, V. Pres.; James A. Harris, Jr., V. Pres.; R. W. Woodruff, V. Pres.; M. B. McLaughlin, V. Pres.; T. R. Dahl, Secy.; George H. Kelly, Treas.; W. S. Rogers, Pur. Agt.	6611 Euclid Ave
E	WHITE MOTOR CO., THE Walter C. White, Pres.; Geo. F. Russell, V. Pres.; James A. Harris, Jr., V. Pres.; R. W. Woodruff, V. Pres.; M. B. McLaughlin, V. Pres.; Thos. White, Gen. Mgr.-Fcty. Mgr.; B. Graves, Pur. Agt.; T. Bell, Asst. Pur. Agt.	E. 79th & St. Clair Ave.

CLEVELAND, CUYAHOGA COUNTY, OHIO

Class	Firm and Personnel	Address
B-R	WHITE SEWING MACH. CO. A. F. Rodgers, G. M.; Oscar Grothe, Fcty. Mgr.; E. W. Hall, P. A.	St. Clair & E. 79th St.
BB-I-PP-II-KK	WHITE TOOL & SUPPLY CO., THE H. C. Ellsworth, Pres.-G. M.; W. J. Christman, P. A.	1313 W. 6th St.
BB-P	WHITING CORP. Robert J. Thomas, Dist. Mgr.	E. 6th St. Clair Bldg.
BB-UU	WHITLOCK MFG. CO., THE R. H. Whitlock, Gen. Mgr.-P. A.	1506 W. 112th St.
V	WHITNEY TRACTOR CO., THE A. B. Whitney, Pres.-Treas.; H. S. Erd, V. P.-G. M.; Jno. J. Ensco, Secty.; J. A. Nyland, Ch. Engr.; J. G. Erd, Ch. Engr.; A. J. Tuscany, P. A.; D. A. Vail, Asst. P. A. A. C. Jones & G. B. Shaut, Supts.; M. F. McCarthy, Prod. Mgr.	2731 Prospect Ave.
BB-N-G-LL	WICKWIRE SPENCER STEEL CO. E. C. Stout, Dist. Sales Mgr.	Natl Bldg. (Works, Buffalo, N. Y.)
E-R-S	WILLARD STORAGE BATTERY CO., THE T. A. Willard, Pres.; R. C. Norberg, V. P.-G. M.; H. J. Stiles, S. T.; O. W. Oetting, Ch. Engr.; F. Kulow, Ch.-P. A.; F. J. Reynolds, Asst. P. A.; G. W. Snow, Asst. P. A.; W. B. Pettibone, Fcty. Mgr.; K. E. Roof, Welfare Mgr.	E. 131st & St. Clair Ave.
BB-GGG	WILLCOX SYSTEM & EQUIP. CO., THE W. H. DuRoss, Pres.; James Arcus, V. P.; Carl Schaefer, Secy.; K. Millhoff, Treas.; Wm. H. Willcox, Gen. Mgr.	Old Arcade
D	WILLIAMS TEST CLAMP CO., THE John H. Williams, Pres.-G. M.-P. A.	1051 Power Ave.
N	WILSON FASTENER CO., THE F. E. Wilson, Pres.; W. G. Wilson, V. Pres.; C. O. Todd, Secy.-Treas.; E. A. McCann, P. A.	117 St. Clair Ave. N. E.
BB-II-KK	WINDAU TOOL CO., THE E. H. Windau, Prop.-P. A.	1565 E. 17th St.
E	WINTON COMPANY, THE Alexander Winton, Pres.; Thomas Henderson, V. P.; George H. Brown, Secty.; E. McEwen, G. M.; C. F. Krumhor, P. A.; C. A. Blake, Gen. Supt.; H. L. Matheny, Service Mgr.	Berea Rd. & Madison
C	WINTON ENGINE WORKS Alexander Winton, Pres.; Thomas Henderson, V. P.; George H. Brown, S. T.; George W. Codrington, Gen. Mgr.; F. Salisbury, Ch. Engr.; M. B. Keil, P. A.	2116 W. 106th St.
B-DD-U	WOOD & SPENCER CO., THE F. W. Wood, Pres.-Gen. Mgr.; A. K. Spencer, V. Pres.-Treas.; D. G. Miller, Secy.; P. C. Halter, Ch. Engr.-Gen. Supt.; C. L. Reinke, Pur. Agt.	1930 E. 61st St.
K	WOODHILL BRASS CO., THE J. P. Ferencik, Pres.; Jos. Hurbecky, V. P.; Frank R. Noss, Secy.-G. M.-P. A.; H. S. Mitchell, Treas.	2889 Woodhill Rd.
D-DD	WOODHILL STAMPING CO., THE K. W. Collins, G. M.-P. A.; F. Zluhan, Gen. Supt.	10585 Quincy Ave.
DD	WOODRUFF ENGR. CO. R. J. Woodruff, Prop.	5315 Euclid Ave.
MM	WORDEN TOOL CO., THE W. E. Bonesteel, Pres.-G. M.-P. A.	1854 Scranton Rd.
BB-I-K-M-N R-S-U-Y-KK MM-NN	WORTHINGTON, GEO. CO., THE W. D. Taylor, Pres.-G. M.; C. A. Jewett, V. P.; A. J. Gaehr, S. T.; H. H. Riddle, S. M.-P. A.; H. E. Holburd, Sales Engr.; L. H. Weber, P. A.; F. L. Foshay, P. A.	802 St. Clair Ave. N. W.
BB-A-C-NN	WORTHINGTON PUMP & MCHRY. CO., THE A. J. Klug, Sales Mgr. Cleveland Dist.	Kirby Bldg.
BB-M	WYMAN GORDON CO., THE J. D. Sutherland, Gen. Sales Mgr.	Soc. for Savings Bldg. (M. O. Worcester, Mass.)
BB-D	WYOMING SHOVEL WORKS, THE Stanley H. Smith, Sales Mgr.	Kirby Bldg.
DD	Y. M. C. A. MACHINE SHOP S. J. Papoi, Gen. Supt.	Chester & 23rd St.
A-B-WW	YODER COMPANY, THE C. M. Yoder, Pres.-G. M.; M. H. Yoder, V. P.; H. O. Yoder, Secy.-P. A.; F. Dellinger, Fcty. Mgr.	5510 Walworth Ave.

CLEVELAND, CUYAHOGA COUNTY, OHIO		
Class	Firm and Personnel	Address
B	YORK OHIO ICE MACHINE CO., THE John Schurman, Pres.-G. M.-P. A.; A. R. Greenwood, V. P.; H. S. Yoder, Secty. & Sales Mgr.; Thomas Shepley, Treas.; A. Von Mengerhausen, Ch. Eng. Prod.; E. J. Feig, Sales Engr.; M. H. Ackerman, Sales Rep.	1108 Woodland Ave.
DD-II	YOUMANS MACHINE CO., THE W. H. Staring, Pres.; C. R. Youmans, V. P.-Treas.-G. M.-P. A.	1101 Power Ave.
F	YOUNG & SON COMPANY L. R. Young, G. M.-Supt.	2281 E. 89th St.
BB-JJ-LL-G	YOUNGSTOWN SHEET & TUBE CO. G. G. Stuart, Dist. Sales Agt.	Leader-News Bldg. (Wks. Youngstown, O.).
DD-II	ZENITH TOOL & MFG. CO., THE D. A. Davis, Pres.; J. Wentling, V. P.; J. Davis, P. A.; K. Korb, Gen. Mgr.	1611 E. 40th St.
R-B	ZEUS ELECTRIC CO., THE John Rein, Prop.-Supt.-P. A.	1591 Columbus Rd.
CLEVES, HAMILTON COUNTY, OHIO		
G	CINTI. HORSE SHOE & IRON CO., THE T. F. Hotchkiss, Pres.; A. J. Barron, V. Pres.-Gen. Mgr.-Sales Mgr.; Leo E. Steele, Secy.-Treas.-Pur. Agt.; R. C. Hillgardner, Ch. Engr.; R. H. Miller, Gen. Supt.; H. Crowe Master, Mech.	
CLYDE, SANDUSKY COUNTY, OHIO		
H-X	CLYDE CASTINGS CO., THE Fred Whitcomb, Pres.-Treas.-Gen. Mgr.; Edw. Schwartz, V. Pres.; Roy Swedersky, Secy.	
MM	CLYDE CUTLERY CO., THE R. B. Jones, Pres.-Gen. Mgr.; L. M. Persing, V. Pres.-Fcty. Mgr.-Gen. Supt.; D. C. Richmond, Secy.; Taylor Fuller, Treas.	
E	CLYDESDALE MOTOR TRUCK CO., THE F. D. Brown, Pres.; A. J. Banta, V. Pres.-Gen. Mgr.; J. H. Baynes, Secy.; D. E. Fuller, Treas.	
R	SHOLDER-EXCEL MFG. CO. Wm. Anthony, Pres.-Gen. Mgr.	
COLDWATER, MERCER COUNTY, OHIO		
RR	NEW IDEA SPREADER CO., THE B. C. Oppenheim, Pres.-Sales Mgr.; Henry Synk, V. P.-Fcty. Mgr.; I. H. Oppenheim, Treas.; A. Mueller, P. A.	
COLUMBIANA, COLUMBIANA COUNTY, OHIO		
B-H	BANNER MACH. CO., THE F. H. Grove, Pres.-G. M.-P. A.-Sales; J. F. Coyle, V. P.; E. T. Coyle, S.-T.; A. L. Heston, Ch. Engr.; G. R. Bilger, Gen. Supt.	
M-DD-II	COLONIAL TOOL & FORGE CO., THE L. V. Blue, Pres.-G. M.-P. A.; H. R. Orr, S.-T.-Prod. Mgr.-Sales; Otto Weber, Fcty. Mgr.; H. R. Orr, Asst. P. A.	W. Railroad Street.
C	COLUMBIANA BOILER CO., THE Jacob Detwiler, Pres.; Alfred Barrow, V. P.; R. J. Barrow, Secty.; John Barrow, Treas. G. M. P. A.; Clyde Barrow, Fcty. Mgr.	Railroad St.
NN	COLUMBIANA PUMP CO. J. V. Stewart, Gen. Mgr.	
MM-RR	ENTERPRISE CO., THE H. H. Detwiler, V. P.-G. M.-P. A.	
M-DD-II	HARROLD, H. J. TOOL CO. H. J. Harrold, Pres.-G. M.; Roy V. Harrold, S.-T.-P. A.	22 E. Park Ave.

THE MOTT & MERRYWEATHER MACHINERY CO.

Cleveland
Cincinnati
Detroit
Pittsburgh

COLUMBIANA, COLUMBIANA COUNTY, OHIO

Class	Firm and Personnel	Address
YY	NEW TREAD TIRE CO., THE. S. W. Tidd, Pres.; E. P. Altenburg, V. P.-G. M.; C. V. Colvin, S.-T.-P. A.; O. W. Altenburg, Fcty. Mgr.	

COLUMBUS, FRANKLIN COUNTY, OHIO

C	ADCO MFG. CO., THE	162 W. Spring St.
	C. B. Hardman, Pres.-Gen. Mgr.; Wm. M. Graham, V. Pres.; W. C. Mooney, Secy.-Treas.	
E	ALLEN MOTOR CO., THE	400 Dublin Ave.
	E. W. Allen, Pres.; G. E. Schroth, Secy.; H. C. Runyeon, Gen. Mgr.	
HH	AMERICAN CHAIN CO.	134 N. Scioto
	N. B. Marple, Mgr.	
U	AMERICAN NUT CO., THE	391 Denison
	C. S. Lanman, Pres.; A. R. McAndrew, V. Pres.-Gen. Mgr.	
VV	AMERICAN WATER MOTOR CO., THE	796 E. 11th Avenue.
	L. Lewis, Pres.-Gen. Mgr.; L. T. Jacobs, Sales Mgr.	
SS-BB-SS	ANCHOR CONCRETE STONE CO.	1075 Lexington Ave. (Br. Rock Rapids, Ia.)
	G. M. Friel, Mgr.	
B-DD-II	ARCH CITY MACHINE WORKS	Bet. Vine & Spruce Streets.
	C. L. Mahnicke, Prop.	
E	ARMSTRONG-JOHNSTON MFG. CO., THE	W. 1st Ave. & Perry St.
	W. R. Johnston, Pres.-Gen. Mgr.; M. Armstrong, V. Pres.; Jas. H. Johnston, Secy. Tres.-F. M.-P. A.	
DD-II	ATCHESON DIE TOOL CO.	45 W. Long
	H. S. Atcheson, Prop.	
H-X-DD	ATLAS BRASS FDY. CO., THE	
	J. Wittman, Pres.; L. A. Pleukharp, V. Pres.-Treas.; E. D. Wittman, Sect.-G. M.; J. Twitchell, Pur. Agt.; R. B. Perry, Sales Mgr.	
	AULD, D. L. CO., THE	5th Ave. & 5th St.
	D. L. Auld, Pres.; J. A. Auld, V. Pres.; S. G. Brooks, Secy. Treas.; F. H. Auld, Gen. Mgr.	
R	AUTOMATIC RECLOSING CIRCUIT BREAKER CO., THE	6th & Wesley Ave.
	A. R. Anderson, Pres.; E. C. Ranney, Secy.-Gen. Mgr.	
F	BANNER PATTERN CO., THE	662 N. 4th St.
	Jas. Crooks, Pres. G. M. Gen. Supt. P. A. Charles Uhl, V. P.-Fcty. Mgr.; Evelyn B. Crooks, S.-T.; H. D. Miller, Ch. Engr.; George Horne, M. M.	
R-BB-BBB	BARNEBEY-CHENEY ENGR. CO.	P. O. Box No. 66
	O. L. Barnebey, Pres.-Treas.-Gen. Mgr.; C. E. Burnham, Secy.	
F	BAUERMEISTER, FRED	200 W. Mound St.
	Fred Bauermeister, Prop.	
U	BERRY BROS.	1st Ave. & Big Four R. R.
	R. G. Berry, Prop.	
G	BESSIE FURNACE CO., THE	230 N. 4th St.
	Caleb L. McKee, Pres.-Treas.; C. B. Donohue, Secy.-P. A.	
H-X	BONNEY-FLOYD CO., THE	Marion Rd.
	J. L. V. Bonney, Pres.-Treas.; W. B. Floyd, V. Pres.-Secy.-Gen. Mgr.	
C	BORGER BROS. BOILER WKS.	257 W. Spring St.
	M. E. Borger, Pres.; F. W. Borger, V. Pres.; E. E. Follmer, Treas.-Gen. Mgr.-Pur. Agt.	
DD	BREHL, JOS. C.	376 S. Third.
	Jos. C. Brehl, Prop.	
G-LL-B	BRIGHTMAN MFG. CO., THE	Marion Rd.
	F. H. Brightman, Pres.; G. F. Brightman, V. Pres.; C. W. Brightman, Secy.-Treas.; J. H. Brightman, Asst. Secy.-Treas.; H. L. Brightman, Wks. Mgr.; H. M. Brightman, Gen. Supt.	
AAA	BROCALS CHEMICAL CO.	412 Grand Theatre Bldg.
	F. H. Holmes, Treas.; Jos. McGhee, V. Pres.; H. P. Lauritzen, Secy.; W. H. Blake, Plant Supt. (Plant at Syracuse, Meigs Co.)	
E-D-R	BROWN, JOHN W. MFG. CO., THE	Marion Rd.
	J. B. Brown, Pres.; J. W. Brown, Secy.-Treas.	
XX-R	BRUNT PORCELAIN CO., THE	P. O. Box No. 493
	G. F. Brunt, Pres.-Sales Mgr.; H. D. Clark, V. Pres.; J. T. Herbert, Secy.-Prod. Mgr.; W. F. Steele, Treas.-Gen. Mgr.-Pur. Agt.	

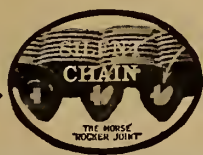
COLUMBUS, FRANKLIN COUNTY, OHIO

Class	Firm and Personnel	Address
A-B	BUCKEYE DRILL & LATHE CO., THE C. M. Probasco, Pres.-G. M.-P. A.; H. R. Porter, Gen. Supt.	Marion Rd
VV	BUCKEYE DRYER CO., THE Vrnul Harbage, Pres.; F. J. Murray, V. Pres.; R. R. Perkins, Secy.-Sales Mgr.; G. A. Hankins, Treas.	243 N. High St.
K	BUCKEYE GAS MANTEL MFG. CO., THE J. W. Malsby, Pres.-Gen. Mgr.-Pur. Agt.; R. E. O'Hara, Secy.-Treas.	1051 W. Goodale St.
NN-R	BUCKEYE PUMP & MFG. CO. J. C. Howard, Prop.	409-17 S. 18th St.
MM	BUCKEYE SAW MFG. CO. Wm. Reynolds, Prop.; Richard Reynolds, Prop.	285 N. Water St.
D-GG	BUCKEYE STAMPING CO., THE E. C. Derby, Pres.-Treas.; E. R. Chapman, V. Pres.	Niagara Rd.
H-X	BUCKEYE STEEL CASTINGS CO., THE S. P. Bush, Pres.-Gen. Mgr.; Arno Eberlein, Secy.-Treas.; J. C. Whitridge, Asst. G. M.; A. H. Thomas, Supt.; J. E. Finneran, Pur. Agt.	S. Parsons Ave.
XX	BUCKEYE WINDOW GLASS CO., THE Chas. E. Bartram, Pres.-Gen. Mgr.; J. M. Sheets, V. Pres.; C. E. Bartram, Jr., Secy.; F. B. Ford, Treas.	Bonham Ave.
ZZ-N	BUCKEYE WIRE & IRON WKS. M. G. Rich, Prop.	722 E. Mound St.
L-B-DD-II	BUDD-RANNEY ENGR. CO., THE W. E. Ranney, Pres.-Gen. Mgr.; W. H. Budd, V. Pres.; W. A. Vause, Secy.; F. O. Ackers, Treas.; F. P. Smith, Gen. Supt.	236 N. Water St.
BBB	BURGESS SOLDERING FURNACE CO. E. T. Burgess, Gen. Mgr.	292 E. Long St.
T-E	C. A. S. PRODUCTS CO., THE Chas. A. Brunner, Pres.-Gen. Mgr.; C. D. Cutting, V. Pres.; C. S. M. Krum, Secy.; F. L. Stein, Treas.; A. O. Judson, Fcty. Mgr.; V. Brockbank, Ch. Engr.; J. F. Wagner, Prod. Mgr.; Clem. Stein, Pur. Agt.	318 E. Second Ave.
DD-II	CANNON MFG. CO., THE Henry Olenhausen, Pres.; M. J. Cannon, Secy.-Treas.; J. E. O'Brien, Jr., Gen. Mgr.	95½ W. Gay St.
N	CAPITAL CITY WIRE WKS. C. Sullivan, Prop.-G. M.	
DD-II	CAPITAL DIE, TOOL & MCH. CO., THE R. B. Ralston, Pres.-Treas.; H. L. Gibney, Secy.-Gen. Mgr.	619 N. Fourth St.
P-CC	CASE CRANE & ENGR. CO., THE Paul T. Norton, Pres.-Treas.; H. C. Hoefflich, Secy.	Curtiss & St. Clair Aves.
BB-F	CENTRAL FOUNDRY SUPPLY CO., THE J. S. Pell, Pres.; C. E. Whittin, Secy.-Treas.	825 Reynolds
B-DD-II	CENTRAL MACHINE & TOOL CO. Geo. Alber, Pres.-Treas.; Carl Neydon, Secy.-Fcty. Mgr.	
EE	CENTRAL OHIO WELDING CO. J. Louis Richter, Prop.-Supt.	200 East Lynn St.
L-TT	CERAMIC ENGINEERING CO., THE W. D. Richardson, Pres.; D. H. Hyde, V. P.; T. W. Garve, S.-T.-P. A.	2782 N. High St.
S	CHASE FDY. & MFG. CO., THE P. A. Myers, Pres.; Guy C. Myers, V. Pres.; S. M. Chase, Secy.-Treas.-Gen. Mgr.; Wm. Flummerfelt, Ch. Engr.; A. A. Hunziker, Gen. Supt.; H. S. Swinehart, P. A. A. J. Dunn, Sales Mgr.	Parsons Ave. & Hocking Valley R. R.
B-RR	CHISHOLM-SCOTT COMPANY Thomas A. Scott; S. M. Ryder, Props.	71 E. State St.
H-X	CITY BRASS WORKS G. A. Neumeister, Prop.	19 S. Scioto St.
YY	CLIMAX RUBBER CO., THE I. S. Hoffman, Pres.; H. A. Longshore, V. Pres.; M. E. Swanson, Secy.-Treas.	417 Citizens Bank Bldg.
BB-FFF	COLE, H. CO., THE H. Cole, Pres.; R. E. Cole, Secy.-Treas.	68 E. Gay St.

OHIO
SALES
OFFICE



MORSE DRIVES



ENGINEERS
BUILDING
CLEVELAND

COLUMBUS, FRANKLIN COUNTY, OHIO

Class	Firm and Personnel	Address
CC	COLUMBIAN MAIL CRANE CO. W. E. Heskett, Secy.-Treas.; V. S. Klick, Gen. Mgr.	898 Ingleside Ave.
B-F-L-M-DD	COLUMBUS ANVIL & FORGING CO. C. M. Voorhees, Pres.; T. N. Long, V. Pres.-Gen. Fcty. Mgr.; C. M. Wagner, Sec.-C. E.-P. A. L. W. Seymour, Treas.	115 W. Frankfort Street
D-E	COLUMBUS AUTO BRASS CO., THE G. Edwin Smith, Pres.; Clyde Roth, V. Pres.; Thomas Ash, Secy.-Fcty. Mgr.; A. J. Frame, Treas.-Pur. Agt.	767 N. 4th St.
DD-E	COLUMBUS AUTO PARTS CO., THE R. E. Klages, Pres.-G. M.; C. J. Krag, V. P.; E. B. Hoog, Sec.-Treas.; J. B. Mulligan, Fcty. Mgr.; C. W. Walker, Ch. Engr.; R. D. Klages, Pur. Agt. G. A. Stirling, Jr., Prod. Mgr.	215 E. Russell St.
BB-I	COLUMBUS BELTING & SUPPLY CO. J. A. Day, Gen. Mgr.	77 E. Long St.
U-M	COLUMBUS BOLT WKS. CO. J. R. Poste, Pres.-Gen. Mgr.; J. H. Poste, V. Pres.; H. A. Mason, Secy.-Sales Mgr.; O. J. Cherry, Treas.; S. H. Barrett, Fcty. Mgr.-Prod. Mgr.; C. H. Pidgeon, Ch. Engr.-M. M. J. B. Armack, Gen. Supt.; H. J. Zeise (Miss) Pur. Agt.	162 Randolph St.
K-H-X	COLUMBUS BRASS COMPANY C. R. Lindenberg, Pres.; F. H. Lindenberg, V. P.; G. W. Lindenberg, S.-T.-G. M.-P. A.; C. B. De Laney, Gen. Supt.	538-44 Dublin Avenue.
Z	COLUMBUS CONVEYOR CO., THE Samuel T. Isaac, Pres.-Gen. Mgr.; Robert E. Belt, V. Pres.-Secy.-Treas.-Fcty. Mgr.; Earl B. Smith, Gen. Supt.; Porter L. Thompson, Sales Engr.	West Goodale St.
FFF	COLUMBUS DENTAL MFG. CO., THE J. W. Champion, Pres.; W. L. Truesdale, Secy.; C. L. Frame, Treas.	Wager & Jackson Sts.
A-B-F-DD	COLUMBUS DIE TOOL & MACHINE CO., THE H. H. Price, Gen. Mgr.; M. M. Price, V. Pres.-Treas.; C. C. Moelchert, Secy.-P. A.; M. Bode, Fcty. Mgr.; E. C. Ehrensberger, Ch. Engr.; Fred Rufener, Prod. Mgr.; O. E. Larson, Gen. Supt.	955 Cleveland Avenue.
R	COLUMBUS ELECTRICAL WKS. CO. J. T. Wolfley, G. M.-P. A.	
M	COLUMBUS FORGE & IRON CO., THE Foster Copeland, Pres.; F. A. Miller, V. Pres.; D. W. Singleton, Secy.-Treas.	40 W. 1st St.
QQ	COLUMBUS HEATING & VENTILATING CO. G. C. Bowman, Pres.-G. M.; C. L. LaMonte, Sec.-Treas.; Geo. J. Ripple, Fcty. Mgr.-Gen. Supt.; R. M. Spencer, Ch. Engr.; R. G. Reed, P. A.	425-55 West Town St.
S	COLUMBUS LIFT TRUCK CO., THE F. H. Angell, Pres.-Gen. Mgr.	136 E. Gay St.
HH	COLUMBUS McKINNON CHAIN CO. C. M. Wambaugh, Pres.; A. R. Markel, Secy.-Treas.; Daniel Carroll, V. Pres.-Gen. Mgr.	S. 5th & Hosack
H-X	COLUMBUS MALLEABLE IRON CO., THE G. H. Thompson, Pres.-Gen. Mgr.; J. R. Cole, V. Pres.; G. A. Johnson, S.-T.-P. A.; Jas. H. Dudgeon, Fcty. Mgr.-Gen. Supt.; T. J. Bryson, Ch. Engr.-Master Mech.; E. A. Green, Prod. Mgr.	Curtis & Jefferson Avenues.
BB-I-K	COLUMBUS MILL & MINE SUPPLY CO., THE W. F. Brown, Pres.-Treas.; C. W. Brown, V. Pres.; W. S. Brown, Secy.	77 N. Front Street.
BB-NN-C	COLUMBUS PUMP SUPPLY CO., THE G. H. Strohm, Pres.; O. R. Fenstermaker, Secy.-Treas.	35 Vine St
NN	COLUMBUS STEAM PUMP WKS. CO., THE Jas. M. Pulling, Pres.-Gen. Mgr.-Pur. Agt.; E. L. Pulling, V. Pres.; M. G. Pulling, Secy.; R. Pulling, Treas.-Fcty. Mgr.; H. B. Borneman, Ch. Engr.; James Kuhn, Gen. Supt.	85 W. Broad St
ZZ	COLUMBUS STRUCTURAL STEEL CO. P. L. Schneider, Pres.-Treas.; H. E. Kunzman, V. Pres.-Secy.-Gen. Mgr. Herbert Brooks, Jr., Secy.	Buttles & Ingleside Avenue
YY	COLUMBUS TIRE & RUBBER CO. John W. Zuber, Pres.-G. M.; R. M. Fountain, V. P.; J. P. Brennan, Sec.-Treas.; M. J. Miscoe, Fcty. Mgr.; C. E. Board, Pur. Agt.; W. B. Howell, Prod. Supt.	555 W. Goodale St

COLUMBUS, FRANKLIN COUNTY, OHIO

Class	Firm and Personnel	Address
	COLUMBUS-UNION OIL CLOTH CO., THE	Grant & 7th Sts.
	R. H. Willcox, Pres.-G. M.-P. A.; H. E. Nesbitt, V. Pres.; O. C. Altmaier, Sec.-Treas.	
	W. S. Speilman, Ch. Engr.; J. P. Hardy, Ch. Engr. Fcty. Mgr.;	
	T. Gillea, Gen. Supt.; F. L. Mock, Sales Mgr.	
QQ	COLUMBUS WASH BOARD CO., THE	1311 Cleveland Ave.
	W. P. Tracy, Pres.; Arthur R. Brown, Gen. Mgr.-Pur. Agt.	
EE	COLUMBUS WELDING SHOP	783 N. Fourth St.
	G. F. Wieser, Prop.	
N-ZZ	COLUMBUS WIRE & IRON WKS., THE	540-42 W. Poplar Avenue.
	Frank H. Howe, Pres.-Treas.-G. M.; Henry P. Howe, V. P.-Fcty. Mgr.;	
	Harold B. Gatch, Secty.; Herbert Valentine, Ch. Engr.; Iva Grooms, P. A.	
V	DAYTON TRACTOR CO.	1619 Highland St.
	E. A. Brenneman, Pres. G. M. P. A. Sales; H. Gascho, Secy.	
QQ	DRISKEL BENCH CO.	172 W. Locust St.
	Burt Driskell, Prop.-Gen. Mgr.; E. R. Wheeler, Ch. Engr.-Prod. Mgr.	
DD	EATON MACHINE CO.	37 S. Scioto St.
	M. Sylvester, Prop.x	
XX	EBINGER, D. A. SANITARY MFG. CO., THE	180 Lucas St.
	D. A. Ebinger, Pres.-Treas.; D. H. Ebinger, V. Pres.-Gen. Mgr.-P. A.;	
	C. H. Blank, Secy.; A. E. Smith, Ch. Engr.; Al. Tharpe, Prod. Mgr.;	
	E. E. Batson, Gen. Supt.; J. Coulter, Master Mech.	
BB-X Y Z	ELCON ENGR. CO., THE	530 Rowlands Bldg.
	E. S. Hetrick, Pres. Gen. Mgr. Pur. Agt.; H. S. Schneider, V. Pres.; Franklin L. LeRoy, Secy.;	
	H. E. Welk, Treas. Sales Mgr.	
H X	ELDER & HENDRY FOUNDRY CO.	118 Yale Ave.
	J. F. Elder, Prop.; A. L. Hendry, Prop.	
GGG H X	EMRICH, C.	371 S. High St.
	J. G. Emrich, Prop.	
BB-NN-C	FACTORY SALES CO., THE	
	J. T. Broughton, Mgr.	
E-GGG	FEAZEL MFG. CO., THE	
	C. E. Feazel, Pres.-Gen. Mgr.; W. B. Feazel, V. Pres.; D. M. Feazel, Secy.-Treas.	
XX	FEDERAL GLASS CO., THE	Innis Ave. and Parsons
	J. M. Beatty, Pres.; H. S. Bracken, V. Pres.; M. G. Woodhull, Secy.-Pur. Agt.;	
	W. C. Bracken, Treas.; Geo. S. Dunbar, Sales Mgr.	
K	FEDERAL MFG. CO., THE	168 W. Long
	L. T. Schofield, Pres.; E. B. Acker, Treas.-Gen. Mgr.	
R-GG	FISHER-CHASE MFG. CO., THE	118 Parsons
	H. F. Fisher, Pres.; B. L. Chase, V. Pres.; R. J. Feather, Secy.	
GGG-E	FRANCISCO AUTO HEATER CO.	1016 Mt. Pleasant Ave.
	J. B. Francisco, Prop.-G. M.; C. M. Francisco, Sec.-Treas.-P. A.	
DD-II	FRANKLIN DIE TOOL CO.	572 Park
	J. F. Cahill, Pres.; E. E. Wirthwein, Asst. Secy.; P. A. Holstein, Supt.	
BB-B-C-V-RR	FRICK COMPANY, INC.	476 N. Park
SS	W. M. Tippet, Dist. Mgr.	
AAA	GAS PRODUCTS CO., THE	Office 85 N. High St.—Plant 100 N. Skidmore St.
	G. S. Butler, Pres.; S. D. Winger, V. Pres.-Gen. Mgr.; J. R. Gobey, Secy.-Treas.;	
	A. F. Oresky, Supt.	
K	GROENIGER MFG. CO., THE	500 Clinton Bldg., 8 E. Chestnut St.
	Wm. C. Groeniger, Pres.-Gen. Mgr.; J. C. Denton, Fcty. Mgr.-Prod. Mgr.	
H-X	GUENTHER FOUNDRY	108 Liberty St.
	Chas. J. Guenther, Prop.	
Z	HAMILTON MFG. CO. THE	Schultz Bldg.
	W. E. Hamilton, V. P. G. M. P. A.; C. E. Sudler, S. T. Ch. Engr.	
QQ	HANSON MFG. CO.	1242 Penn Ave.
	A. L. Hanson, Prop.	
SS	HAYDEN AUTOMATIC BLOCK MCH. CO., THE	891 Michigan Ave.
	C. H. Hayden, Pres.; C. H. Minor, V. Pres.-Fcty. Mgr.; N. B. Marple, Secy.-Treas.-G. M.	

COLUMBUS, FRANKLIN COUNTY, OHIO

Class	Firm and Personnel	Address
L-BB-C-NN	HAYS ENGINEERING CO. Harvey G. Hays, Gen. Mgr.; Henry Kelsey, Asst. Gen. Mgr.	614 Commerce Bldg.
B-DD-II	HEARN, J. C. MACHINE WORKS J. E. Hearn; F. R. Hearn, Props.	115 Vine
RR-V	HELD, FRANK TRACTOR THE Frank Held, Pres.-Gen. Mgr.; J. E. Cain, V. Pres.; A. J. Pestel, Secy.; R. A. Clickenger, Tres.	609 N. 4th St.
B	HERMAN FIRE BLDG. MACHINE CO., THE W. H. Herman, Pres.-Treas.-Gen. Mgr.; F. Stanley Crooks, Secy.	310 Majestic Bldg.
H-X	HERTENSTEIN, M. CO., THE M. Hertenstein, Prop.-G. M.; Theo. Aust, Jr., S.-T.-P. A.	1409 S. High St.
H-X	HOUGHTON MALLEABLE CASTINGS CO., THE Ira L. Houghton, Pres.-Gen. Mgr.; Robt. J. Thomas, V. Pres.; Frank S. Lewis, Secy.; Frank P. Kennison, Treas.	966 Spitzer Bldg.
BB-R	HUGHES & PETERS ELEC. CO., THE J. L. Hughes, Pres.-Gen. Mgr.; H. W. Peters, V. Pres.; J. T. Hughes, Secy.-Treas.	104 E. Long St.
DD	IMMEL, JOHN & SONS CO., THE R. H. Immel, Pres.-Gen. Mgr.; A. H. Johnson, V. Pres.; A. F. Beck, Treas.; M. P. Wilson, Secy.	35 E. Livingston
SS-CC	INTERNATIONAL DERRICK & EQUIP. CO., THE Gordon Battelle, Pres.-Treas.; H. M. Runkle, V. Pres.-Gen. Mgr.; O. E. Stevenson, Secy.; R. R. Bloss, Ch. Engr.; W. B. Tobin, Prod. Mgr.; R. W. Mitchell, Pur. Agt.	186 E. Broad St.
D-E	INTER-STATE SIGNAL MFG. CO. Carl Brown, Prop.-G. M.	202 N. Grant Ave.
H-X	IRON PRODUCTS CO., THE G. C. Bowman, Pres.; H. M. Henderson, Secy.-Gen. Mgr.-Pur. Agt.; C. L. La Monte, Treas.; Edward Kirby, Fcty. Mgr.	417 W. Spring St.
SS	JAEGER MACHINE CO., THE G. Jaeger, Gen. Mgr.; Wm. B. Simpler, Sales Mgr.	520 Dublin Ave.
B-K-S-Y-Z-CC R-SS-QQ	JEFFREY MFG. CO., THE J. A. Jeffrey, Pres.; S. B. Belden, V. Pres.; Dir. of Sales; J. W. Jeffrey, V. Pres.; R. H. Jeffrey, V. Pres.-Gen. Mgr.; C. W. Miller, Secy.-Treas.; Jos. Dierdorff, Fcty. Mgr.; N. D. Levin, Ch. Engr.; M. W. Hibbard, Ch. Engr.; C. D. Ford, Gen. Supt.; J. D. Davidson, Pur. Agt.; J. H. Fannor, Asst. Pur. Agt.; H. Holliday, Asst. Pur. Agt.; J. H. Flory, Sales Mgr.	
YY	JONES HEEL MFG. CO., THE Geo. G. Jones, Pres.-Treas.-Gen. Mgr.-P. A.; E. E. Lerch, V. Pres.; N. Hattenbach, Secy.-Gen. Supt.	Whittier & Park Street.
DD-II	KAISER MACHINE WORKS Oscar F. Kaiser, Prop.	31 W. Mound St.
SS-RR-S	KILBOURNE & JACOBS MFG. CO., THE F. A. Jacobs, 1st V. Pres.; J. R. Kilbourne, V. Pres.-Gen. Mgr.; F. C. Eaton, Treas.; H. B. Hileman, Asst. Gen. Mgr.; C. E. Roth, Secy.-Asst. Treas.	E. Lincoln
QQ	KINNEAR MFG. CO., THE Louis R. Hildreth, Pres.-G. M.; E. H. McCloud, V. Pres.; O. S. Larkly, Secy.; G. D. Myers, Treas.	
MM	KINNEL P. H. (Prop)	795 Beech St.
ZZ	KRUMM, MARTIN COMPANY, THE Martin Krumm, Pres.; Mary E. Krumm, V. P.; Ruby Krumm, Secy.; Howard L. Krumm, Treas.-G. M.-Supt. P. A.	330 S. 4th St.
QQ	LAMBERT METAL DOOR CO. B. E. Lambert, Prop.	162 W. Noble
QQ	LAMNECK, W. E. CO., THE W. E. Lamneck, Pres.-G. M.-P. A.; M. B. Armstrong, V. P.; A. P. Lamneck, S.-T.-S. M.; C. J. Holub, Fcty. Mgr.; R. M. Tremain, Asst. P. A.	W. 5th Ave
YY	LANCASTER TIRE & RUBBER CO., THE F. A. Miller, Pres.; E. E. Lerch, V. Pres.; O. H. Williams, Treas.; J. L. Porter, Secy.; J. B. Nonnenmacher, Asst. Treas.	Gugle Bldg
DD-II	LEUKART, J. MACHINE CO. W. J. Leukart, Prop.-G. M.-P. A.	40 E. Columbus St
DD-R	LITTERS MOTOR MACHINE SHOP F. A. Litters, J. B. Litters, Props.	240 N. 4th Street

COLUMBUS, FRANKLIN COUNTY, OHIO

Class	Firm and Personnel	Address
E	LOOMIS-BEARDSLEY MFG. CO., THE R. W. Loomis, Pres.-Gen. Mgr.; G. E. Richard, V. Pres.; E. G. Evans, Secy.; W. E. Evans, Treas.-Sales Mgr.	1112 Mt. Vernon Ave.
H-X	LOUDENSLAGER, H. FDY. CO. Mrs. Minnie Loudenslager, Pres.; H. Loudenslager, Treas.-Gen. Mgr.-Pur. Agt.; Frank Johness, Prod. Mgr.	465 S. Canal St.
DD	LOWE BROS. MCH. & ENGINE WKS. W. D. Lowe, L. E. Lowe, Props.	200 W. Mound St.
YY	MANHATTAN RUBBER MFG. CO. Information withheld.	Gugle Bldg.
RR-V	MARVEL TRACTOR CO., THE E. J. Fox, Secy.	70 N. High St.
K	MAUGHLIN, H. R. CO., THE H. P. Maughlin, Pres.; E. G. Robinson, Secy.-Treas.; E. R. Dunn, Pur. Agt.	515 W. 1st Ave.
F	MELVIN BROS PATTERN WKS. E. O. Melvin, Pres.-Treas.-P. A.; O. L. Melvin, Secty.-Fcty. Mgr.	47 Scioto St.
B-TT	MILLER MACHINE & MOLD WKS. Edw. Miller, Pres.-G. M.-P. A.; A. G. Doll, Secy. Treas.; F. Ergler, Fcty. Mgr.	709-19 Ann St.
B-DD-II	MODERN TOOL & DIE CO., THE C. A. Deibel, Pres.; J. E. Cain, Gen. Mgr.	220 N. 4th St.
ZZ	MORRIS, C. E. CO., THE C. E. Morris, Pres.-Treas.; W. B. Morris, V. Pres.; L. E. Morris, Secy.	139 E. Third Ave.
VV	NEW FAVORITE MFG. CO., THE E. R. Jones, Pres.; W. A. Westerman, Treas.	183 W. Maple
B	NEW SYSTEM MFG. CO., THE George H. Harkrader, Pres.; C. C. Aydelott, V. Pres.; Chas. M. Anderson, Secy.-Treas.; Leslie M. Brown, Gen. Mgr.	532 N. High St.
C-EE	NICKLAUS BOILER WORKS J. A. Nicklaus, Prop.-Supt.	473 W. Poplar Ave.
B	NORRIS MFG. CO. Geo. E. Norris, Prop.	1424 E. Cherry St.
H-X	NORTH SIDE FDRY. C. D. Strong, Jno. J. Rees, Props.	537 Collins Ave.
D	OHIO BADGE CO., THE A. J. Shepard, Pres.; L. E. Andrews, V. Pres.; Ray Shepard, Secy.;-G. M. Fcty. Mgr.-P. A. V. T. Slagle, Treas.	274½ High St.
Z-ZZ	OHIO ELEVATOR & MCH. CO., THE J. H. DeVere, Pres.-Gen. Mgr.; L. F. Slater, V. Pres.; H. R. Burton, Secy.-Treas.; I. W. Liebensperger, Supt.	Jefferson & Curtis Ave.
	OHIO FIREPROOFING CO., THE W. H. Parks, Pres.-Treas.-Gen. Mgr.; J. L. Murphy, V. Pres.; D. A. Evans, Secy. Bort Wolfe, Fcty. Mgr.; Donald Bort, Pur. Agt.; M. M. Morrow, Sales Mgr.	8 E. Broad St.
H-X	OHIO MALLEABLE IRON CO., THE J. A. Jeffrey, Pres.; J. W. Jeffrey, V. Pres.; C. W. Miller, Secy.-Treas.; G. R. Kittle, Gen. Mgr.	Field Ave. & C. S. & H. Railroad.
G-BB-G	OHIO METAL CO., THE Henry Loeb, Pres.-Gen. Mgr.; M. H. Loeb, Sales Mgr.	131 N. Fourth St.
NN-K	OHIO PUMP & BRASS CO. A. R. Benua, Prop.	900 Oak
GGG	OHIO STATE STOVE & MFG. CO., THE W. B. Thomas, Pres.; W. H. Packer, V. P.-Gen. Supt.-P. A.; G. L. Packer, Secy.; M. L. Packer, Treas.-G. M.	Buttles and Ingleside Aves.
MM	OHLEN-BISHOP CO., THE H. J. Bradbury, Pres.; W. R. Batcheller, V. Pres.-Gen. Mgr.-Pur. Agt.; L. W. Seymour, Secy.; R. V. Mitchell, Treas.; S. H. Wilson, Fcty. Mgr.; Bruce Lucas, Asst. Pur. Agt.	Factory & Ingleside Sts.
C	OKEY MFG. CO. Perry Okey, Prop.	W. Naghten & Water
BB-I-PP	OSBORNE & SEXTON MCHY. CO., THE J. J. Sexton, Pres.-Gen. Mgr.; G. L. Mooney, V. Pres. & Treas.; Ludwig Hiatt, Supt.	N. 4th & Russell Sts.

COLUMBUS, FRANKLIN COUNTY, OHIO

Class	Firm and Personnel	Address
D-BB-D	PALMER-DONAVIN MFG. CO., THE Fred L. Palmer, Pres.-Sales Mgr.; C. V. Price, Secy.; Geo. B. Donavin, Treas. Gen. Mgr.; H. E. Stein, Gen. Supt.	78 E. First Ave.
GGG	PEERLESS STOVE & MFG. CO. F. M. Beverly, Prop.	820 Scott St.
E-N	PHELPS MFG. CO., THE H. C. Phelps, Pres.; L. N. Reif, Secy.-Treas.-C. G. Geyer, Gen. Mgr.	2016 S. High Ave.
G	PITTSBURGH TIN PLATE & STEEL CORP. Samuel L. Black, Pres.; A. V. Somers, V. P.-Sec.-Treas.; O. G. Toner, Secty.	
BB-I-K	PLUMBERS & FACTORY SUPPLY CO., THE Wm. E. Mettle, Pres.-Treas.-Gen. Mgr.; Chas. L. Tisdall, V. Pres.-Pur. Agt.; C. A. Will, Secy.-Sales Mgr.	31 E. Spring St.
H-X	POULTIN, WM. Wm., Poulton, Prop.	15 S. Scioto St.
GGG	QUAD STOVE MFG. CO., THE Geo. B. Donavin, Pres.-Gen. Mgr.; C. V. Price, Secy.; Fred L. Palmer, Treas.; H. E. Stein, Gen. Supt.	78 E. First Ave.
S	RALSTON STEEL CAR CO., THE F. E. Symons, Pres.-G. M.; F. A. Livingston, S.-T.; B. C. Hanna, Ch. Engr.; Wm. Alexander, Fcty. Mgr.; J. J. Frank, P. A.; H. E. Grashel, Asst. P. A.; C. L. Fox, Asst. Fcty. Mgr.; E. B. Furry, Asst. Fcty. Mgr.; O. K. Shurtz, M. M.	293 E. 19th St.
R	RAMEY MFG. CO. THE E. J. Ramey, Pres. G. M. P. A.; M. M. Swepton, S. T.; L. S. McKnight, Gen. Supt.	8-16 Livingston Livingston Ave.
GGG	RED E. CO. Information withheld.	1001 Hayden Bldg.
BB-I-PP	REEVES MCHY. CO. J. F. Reeves, Prop.	17 E. Rich St.
DD-II	REX DIE & TOOL CO. Geo. F. Bigler, Supt.	272 N. 3rd
MM	REYNOLDS BROS. Wm. Reynolds, Prop.	N. Water & Spring Sts.
GGG	ROLFE HEATER MFG. CO., THE H. L. Rolfe, Pres.-Gen. Mgr.; R. W. Laylin, Treas.; J. L. Reed, Secy.	222 N. 4th St.
BB-I-K	ROSS-WILLOUGHBY CO., THE W. W. Ross, Pres.; Horace Willoughby, V. Pres.; J. L. Reed, Secy.; J. P. Davis, Treas.; C. E. Davis, Mgr.	180 N. 3rd St.
N-K	SAFETY WIRE GAS GLOBE CO., THE W. H. Budd, Pres.; S. B. Crosson, V. Pres.; W. A. Vause, Secy.; F. O. Ackers, Treas.-G. M.; E. H. Binns, Prod. Mgr.	44 E. Chestnut St.
H-X	SCHMITT BRASS FDY. CO., THE G. M. Schmitt, Pres.; Edw. Schmitt, V. Pres.-G. M.-Fcty. Mgr.; G. W. Schmitt, S.-T.-P. A.	459 Parsons Ave.
DD	SCHREINER, FRANK W. Frank W. Schreiner, Prop.	427 N. Park
BB-I-K	SCIOTO VALLEY SUPPLY CO. L. C. Huesmann, Pres.; W. W. Ross, V. P.; J. L. Reed, Secty.; J. P. Davis, Treas.	
U	SCOTT, J. E. CUP CO., THE J. E. Scott, Treas.-Gen. Mgr.	164 W. Naghton
E-C-NN	SEAGRAVE CO., THE Julius E. Stone, Pres.; H. B. Spain, V. Pres.-Gen. Mgr.; Catharine Cohen, Secy.-Treas.; Wm. E. Lee, Fcty. Mgr.-Gen. Supt.; H. M. Havens, Ch. Engr.; C. S. Greenlee, P. A.; H. B. Shattuck, Sales Mgr.	South High St.
BB-I-PP	SEIFREAT-WOODRUFF CO., THE Christ Seifreat, Pres.; E. C. Elsted, V. Pres.-Treas.	1101 Madison Ave.
BB-C-R	SHARTLE MCH. CO., THE G. W. Shartle, Pres.-Gen. Mgr. P. A.; H. Cochran, V. Pres.; I. L. Rogers, Secy.-Treas.	359 Dublin Ave.
F	SHIELDS PATTERN WKS. Charles J. Shields, Prop.-Supt.	86 W. Lynn St.
H-X	SHILLING FOUNDRY CO., THE Fred Shilling; Dan Shilling; Clarence Shilling.	

COLUMBUS, FRANKLIN COUNTY, OHIO

Class	Firm and Personnel	Address
H-X	SIMPLEX FOUNDRY CO. F. E. Lucas, Prop.-G. M.	333 Denison Ave.
F	SIMPSON, ROBERT D. CO. R. Simpson, Prop.; G. F. Leonhart, Supt.	136 E. Gay St.
KKK	SMITH SCALE CO., THE R. H. Beaton, Pres.; A. E. Hanstel, Gen. Mgr.; N. S. Ewing, Supt.	95 W. Gay St.
D-QQ	SOLAR-STURGESS MFG. CO. G. R. Le Sauvage, Pres.; Paul Armitage, V. Pres.; A. Douglas, Secy.; A. C. Rollen, Treas.; E. C. Camp, Asst. Treas.	470 E. Starr Ave.
U	STANDARD BOLT CORP., THE Justin Burns, Pres.-Gen. Mgr.; Harley E. Burns, V. Pres.-Secy.; R. R. Vance, Treas.;	Clinton St. & Big Four R. R.
DDD	STANDARD ELEC. TIME CO., THE R. C. Grant, Dist. Mgr.	421 1st Nat'l Bank Bldg.
B-DD-II	STANDARD MCH. & TOOL CO. Thos. Long, Prop.	164 W. Naughton St.
E-R	STITT IGNITION CO., THE Harvey C. Garber, Pres.; B. F. Stitt, V. Pres.; M. H. Spung, Secy.-Treas.-P. A.; D. Buel, Gen. Mgr.-Fcty. Mgr.; F. Flink, Ch. Engr.; H. E. Ellis, Prod. Mgr.	16 E. First Avenue.
R-D-QQ	SUN MFG. CO., THE A. Brenholts, Pres.; T. A. Morton, V. Pres.-Treas.; C. S. Watt, Secy.-Sales. Mgr.; H. L. Douglass, Gen. Supt.; John B. Morton, Pur. Agt.	Lorain & McKinley Avenues.
B-DD-II	SUPERIOR DIE, TOOL & MCH. CO. F. A. Field, Prop.-Gen. Mgr.; August Holstein, Prop.-Supt.	525 Buttles
R	SUPERIOR TELEPHONE MFG. CO. I. M. Garfinkel, Prop.	48 S. Front
VV	SWASH MOTOR WASHER CO. J. B. Gaston, Mgr.	493 W. Broad
L-ZZ	TARRIER STEEL CO., THE Fred A. Tarrier, Pres.-Gen. Mgr.; W. E. Curran, V. Pres.-Ch. Engr.; A. F. Butler, Secy.; Oscar Kibele, Jr., Treas.; Clarence Raymond, Fcty. Mgr.	38 S. 6th St.
DD	THURMAN MACHINE CO. M. W. Thurman, Prop.; W. A. Stallman, Prop.	53 E. Lafayette.
L-B-DD-II	TIFFT-MARTIN CO., THE Geo. E. Tift, Jr., Pres.-Gen. Mgr.; Ray. W. Martin, V. Pres.-Secy.-Fcty. Mgr.; M. M. Tift, Treas.	9 Poplar Ave.
E	TIMKEN ROLLER BEARING CO. D. P. Hess, Gen. Mgr.; R. L. Matchett, Prod. Mgr.; Wm. Fowler, Gen. Supt.; A. E. Yates, Master Mech.	1025 Cleveland Ave. (Branch Canton, O.)
YY	TRUE BLUE DRUG & RUBBER CO., THE P. M. Sarver, Pres.; I. A. Carr, Secy.-Treas.	1030 E. Long
C	UNION BOILER WKS. L. M. Borger, Prop.	W. Goodale St. & Hocking Valley R. R.
D-RR	UNION FORK & HOE CO., THE E. Z. Cole, Pres.; G. B. Durrell (Cleveland) V. Pres.; Gen. Mgr.-Treas.; T. F. Connors, Secy.	500 Dublin
YY	UNITED STATES WRINGER MFG. CO. Chas. W. Lentz, Pres.-Treas.-Gen. Mgr.; M. M. Lentz, Secy.	218 N. 4th St.
RR	UNIVERSAL MILKING MCH. CO., THE J. A. Schmitt, Pres.-G. M.-Prod. Mgr.; R. J. Stevens, V. Pres.; E. B. Shurts, Secy. Sales Mgr.; B. F. Beatty, Treas.-Pur. Agt.	Goodale & Michigan Ave.
QQ	V. W. VENTILATOR CO., THE Jos. C. Goodman, Pres.; C. M. Shigley, Secy.-Treas.-Gen. Mgr.; E. T. Spillman, Fcty. Mgr.	101 N. High St.
GGG	VAPOR GAS BURNER CO., THE S. S. Swanson, Secy.-Treas.	278 S. Front.
F	VICTOR PATTERN WORKS G. V. Haering, Prop.	427 N. Park St.
NN	WEINMAN PUMP MFG. CO., THE W. N. Weinman, Pres.; P. W. Holstein, V. Pres.; H. L. Bachman, Secy.; Geo. A. Shonting, Treas.	274 Spruce St.

COLUMBUS, FRANKLIN COUNTY, OHIO

Class	Firm and Personnel	Address
BB-SS	WILLIAMS, W. W. CO., THE W. W. Williams, Pres.; C. L. Stith, V. Pres.; R. K. Ward, Secy.; Clark Elliott, Treas.-Gen. Mgr.; C. E. Reynard, Gen. Supt.	509 Brunson Bldg.
XX	WINSLOW GLASS CO., THE J. P. Winslow, Secy.	Markison Ave.

CONNEAUT, ASHTABULA COUNTY, OHIO

A-B	BURKE MACH. TOOL CO., THE G. H. Burke, Pres.-G. M.; Harry Rockwell, Gen. Supt.; J. D. Parker, Sales Mgr.-P. A.	
D-RR	CONNEAUT SHOVEL CO., THE G. W. Benton, Pres.-G. M.-Treas.; J. T. Grant, V. P.; C. J. Welsh, Secty.-P. A.; A. S. Benton, Ch. Engr.; J. M. Denning, Gen. Supt.-Prod.; E. A. Weber, M. M.	
R	CONNEAUT METAL WORKS CO. W. Lumley, Pres. G. M. Supt. P. A.; M. Bennett, V. Pres. A. B. Wilson, Secy. Treas.	Main Street
A-B	CRAFTSMAN TOOL CO., THE A. W. Pelton, Pres.; H. C. Leavitt, V. P.; J. W. Beardsley, Secty.-G. M.; F. D. Sawdey, Treas.; J. W. Beardsley, P. A.-Fcty. Mgr.; F. A. Gross, Ch. Engr.-M. M.	

CORTLAND, TRUMBULL COUNTY, OHIO

LL	CORTLAND STEEL TUBE CO., THE B. G. McCurley, Pres.; L. A. Hausen, V. P.-Fcty. Mgr.; Ben F. Spencer, S.-T.	
----	---	--

COSHOCTON, COSHOCTON COUNTY, OHIO

	BEACH, H. D. CO., THE H. L. Beach, Treas.-G. M.-P. A.	
XX	CLOW, JAS. B. & SON	(See Newcomerstown).
GG	HUNT-CRAWFORD CO., THE R. T. Hunt, Pres.-G. M.; C. B. Hunt, V. P.; H. B. Hunt, S.-T.-P. A.; Lewis Gephart, Fcty. Mgr.	14th & Orchard Streets.
DD-H-X	KEAGY & LEAR MCH. CO., THE S. M. Lear, Pres.-Fcty. Mgr.-P. A.; J. D. Wisenburg, V. P.; Joseph Keagy, Secty. G. M. Supt.; Chas. S. Parks, Ch. Engr.; G. H. Bible, Prod. Mgr.; Ralph Wisenburg, M. M.	
H-X	KING, W. H. King, W. H., Prop.	
YY	MIDLAND TIRE & RUBBER CO., THE Dr. H. R. McCurdy, Pres.; C. M. Christenson, Secy.-Treas.	Cambridge St.

CRESTLINE, CRAWFORD COUNTY, OHIO

RR-SS	BURCH PLOW WKS. CO., THE Frank Miller, Pres.; H. W. Anderson, V. P.; J. L. Morrow, Secty.-G. M.-P. A.; E. G. Volk, Treas.; J. F. Remy, Gen. Supt.	
NN	CRESTLINE MFG. CO., THE Information withheld.	
RR	INTERNATIONAL MFG. CO., THE Information withheld.	
GGG	SCHILL BROTHERS CO., THE Frank Miller, Pres.; Paul Hayes, V. P.-Treas.; W. D. Cover, Secty.-G. M.; D. Davidson, Ch. Engr.; Leo. E. Weaver, P. A.; Roy Smith, Gen. Supt.	302 Mansfield St.

CURTICE, OTTAWA COUNTY, OHIO

DD-II	CURTICE TOOL & DIE CO. Information withheld.	
-------	--	--

OHIO
SALES
OFFICE



MORSE



DRIVES



ENGINEERS
BUILDING
CLEVELAND

CUYAHOGA FALLS, SUMMIT COUNTY, OHIO

Class	Firm and Personnel	Address
II-KK	CORNWELL QUALITY TOOL CO., THE. Frank Kemerline, Pres.; B. L. Coleman, G. M.-P. A.; H. J. Benson, Supt.	
Y-DD-H-X	FALLS CLUTCH & MCHY. CO., THE G. A. Irvin, Gen. Mgr.-P. A.; H. P. Dey, Secty.-Ch. Engr.; W. J. Irvin, Supt.	Portage St.
DD	FALLS ENGINEERING & MACH. CO., THE. George Herdman, Prop.; I. L. Haynes, Prop.;	
YY	FALLS RUBBER CO., THE. Howard C. Seigrist, G. M.-P. A.; Chas. Wattleworth, Ch. Engr.; G. D. Kratz, Supt.; Fred Comey, Asst. Supt.	
YY	MARATHON TIRE & RUBBER CO., THE. W. H. Jenks, Gen. Mgr.-Supt.; Jas. Hillibish, Engr.-M. M.; Russell Farley, P. A.	
B	VAUGHN MACHINERY CO., THE L. A. Vaughn, V. P.-G. M.-P. A.; P. V. Tippet, Ch. Engr.; F. C. Treat, Supt.	Broad & Front Streets.

DAYTON, MONTGOMERY COUNTY, OHIO

P	A. C. ELECTRIC MFG. CO., THE C. H. Bosler, Pres.-Treas.-Gen. Mgr.; L. Dow Cronninger, V. Pres.-Ch. Engr.; Barrett Bosler, Secy.-Pur. Agt.; R. S. Hicks, Fcty. Mgr.; C. F. Eminger, Sales Mgr.	4th St. U. B. Power Building
DD-MM	ACH, A. & SON CO., THE S. Eisenberger, Pres.; M. Eisenberger, Secy.-Treas.	33 W. 2nd St.
H-X	ADVANCE FOUNDRY CO., THE A. H. Kramer, Pres.-Gen. Mgr.; G. A. Engel, V. Pres.-Fcty. Mgr.; A. W. Schneble, Secy.-Treas.-P. A.; Wm. Kramer, Prod. Mgr.; A. E. Kress, Master Mech.	Parnell & Flower Avenue.
E	AIR FRICTION CARBURETOR CO., THE J. W. Raymond, Pres.-Gen. Mgr.; E. A. Flaherty, V. Pres.; M. C. Raymond, Treas.; J. A. Whyte, Secy.; E. N. Hicks, Supt.	1st & Madison Sts.
QQ	AMERICAN BOLT & SCREW CASE CO. Geo. W. Chaffin, Pres.-Gen. Mgr.	55 Davies Bldg.
L	AMERICAN CONTRACTING CO., THE J. W. Kirkner, Pres.; C. A. Fulmer, V. Pres.-Gen. Mgr.; J. P. Lair, V. Pres.; B. W. Lair, Secy.	Burkart & Garland Avenues.
R-B	AMERICAN DISPLAY CO., THE. M. S. Dunkelberger, Pres.-Treas.; B. C. Dunkelberger, V. Pres.-Secy.	
H-X	AMERICAN FDY. & CASTING CO., THE J. F. Dietz, Pres.-Treas.; Joseph Bauer, V. Pres.; G. D. Wanner, Secy.	1st & Harshman
K	AMERICAN HARDWARE CORPORATION Arthur G. Glover, Resident Mgr.	210 N. Keowee.
U-II	AMERICAN MACHINE PRODUCTS CO. R. G. Mackenzie, Pres.; H. D. Nordle, V. Pres.; F. G. Miller, Secy.-Treas.-Gen. Mgr.	59 S. Hollencamp Ave.
H-X-DD-II-VV	AMERICAN MFG. CO., THE A. B. Hilton, Jr., Pres.-Treas.; J. H. Hostetter, V. Pres.; J. Green, Secy.; I. C. De Beauckelaere, Fcty. Mgr.	408 E. Ray St.
D	AMERICAN METAL ART CO. H. L. Perrine, Pres.; F. J. Holtmeier, V. Pres.; R. Fornshell, Secy.; F. Seller, Treas.; J. J. Flint, Gen. Mgr.-Gen. Supt.; F. Ficher, Pur. Agt.-Sales Mgr.	1808 S. Brown St.
GGG	AMERICAN RADIATOR CO. F. T. Horner, Mgr.	221 N. Main St.
S	AMERICAN RAILWAY EQUIP. CO., THE D. B. Whistler, Pres. Treas.; E. L. Reed, V. Pres. Secy.	2nd & Main Sts.
L	APPLE, VINCENT G. RESEARCH LAB. Vincent G. Apple, Prop.	4th St. U. B. Bldg.
DD-II	ARNOLD TOOL MFG. CO., THE R. C. Kuhns, Pres.; V. E. Rice, Secy.-Treas.	205 W. Edgewood Ave.
UU	ATLAS RUBBER & BELTING CO. Information withheld.	115 S. Ludlow.
L	AULT ENGR. CO. F. Ault, Prop.	52 U. B. Bldg.

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

DAYTON, MONTGOMERY COUNTY, OHIO

Class	Firm and Personnel	Address
E	AUTO RADIATOR SHUTTER CO. Walter G. Doty, Prop.	26 N. Main St.
Z-C	AUTOMATIC FURNACE CO., THE Information withheld.	1st & Harshman Sts.
B-DD-II	AUTOMATIC MACHINE COMPANY J. S. Kepler, Pres.-Gen. Mgr.-P. A.; L. J. Kepler, V. Pres.-Ch. Engr.-Prod. Mgr.; M. E. Kepler, Secy.-Treas.; E. M. Davis, Fcty. Mgr.-Gen. Supt.; W. J. Wertz, Asst. P. A.	1150 West 2nd St.
E	AUTOMOTIVE MFG. CO., THE G. W. Mearick, Pres.; H. C. Moore, V. Pres.; E. F. Moore, Secy.-Treas.	114 E. 4th St.
B-TT	BAHMANN IRON WORKS CO., THE R. H. McElroy, Receiver.	1057 W. Bolender Ave.
B	BAKER MFG. CO., THE R. H. Baker, Pres.; Daniel Nevins, Secy.	810 U. B. Bldg.
	BALL CREAM BEATER CO., THE G. R. Wells, Pres.; R. F. Monahan, Secy.-Treas.	32 S. Main St.
U	BARKELEW METAL PRODUCTS CO., THE H. R. Marquis, Pres.-Treas.-Gen. Mgr.-Pur. Agt.; Leo V. Browne, V. Pres.; F. M. Rhonemus, Secy.-Asst. Pur. Agt.; Geo. N. Stark, Fcty. Mgr.	Richard & Bowen Street.
S	BARNEY & SMITH CAR CO., THE W. D. Sullivan, V. Pres.-Gen. Mgr.; M. Zapoleon, Secy.-Treas.; E. H. Sines, Asst. Secy.	100 N. Keowee
L-DD-U	BICKFORD, F. H. CO., THE F. H. Bickford, Pres.-Treas.; A. P. Steiner, V. Pres.-Gen. Mgr.; M. F. Disher, Secy.-P. A.	E. Booher Lane.
BB-I-PP	BIGGS-WATTERSON CO., THE C. H. Gosiger, Dist. Mgr.	38 S. Jefferson St.
B-DD-II	BRINKMAN ENGR. CO., THE Wm. Roehm, Pres.; J. H. Jeckering, V. Pres.; L. G. Brinkman, Secy.-Treas.-Supt.-P. A.	3rd & Montgomery Avenue.
E	BROOKINS MFG. CO., THE, INC. W. R. Brookins, Pres.-Gen. & Fcty. Mgr.-P. A.; M. Lampke, Treas.	P. O. Box No. 832, Ludlow & Bayard Sts.
C-L-NN	BROWNELL CO., THE John R. Brownell, Jr., Pres.-Gen. Mgr.; F. C. Trowbridge, V. Pres.; W. A. Drake, Secy.-S. M.; A. E. Hartnett, Treas.; C. B. Little, Ch. Engr.; S. R. Irish, Sales Engr.; H. E. Seabold, Sale Engr.; A. L. Bowie, Gen. Supt.; C. E. Wieland, Pur. Agt.	N. Findlay St.
C-QQ	BUCKEYE BOILER CO., THE Frank J. Schneider, Jr., Pres.-Gen. Mgr.-Pur. Agt.; John F. Oehlschlager, V. Pres.; Wm. F. Oehlschlager, Secy.-Treas.; Walter J. Hines, Gen. Supt.	1617 McLain St.
B-DD-II	BUCKEYE ENGINEERING CO. H. A. Ritter, Jr., Prop.; S. Coblenz, Prop.; A. F. Greer, Prop.	124 E. 3rd St.
B-K-H-NN	BUCKEYE IRON & BRASS WKS. W. B. Anderson, Pres.-Gen. Mgr.; R. C. Anderson, V. Pres.-Pur. Agt.; Torrence Huffman, V. P.; Wm. P. Huffman, Secy.-Treas.; Geo. A. Sauer, Fcty. Mgr.-Gen. Supt.; Edw. A. Wentz, Asst. Pur. Agt.	326 E. 3rd St.
F	BUCKEYE PATTERN WORKS M. L. Hahn, Pres.-Gen. Mgr.; F. O. Hiller, V. Pres.-Fcty. Mgr.	303 Valley St.
DD	BUNDENTHAL BROS. J. Bundenthal, Prop.; R. J. Bundenthal, Prop.; Geo. Bundenthal, Prop.	715 E. Monument Ave.
DD-II	BURDEL ENGINEERING CO. C. M. Elfrits, Prop.; E. A. Burdig, Prop.	402 E. 1st St.
	BURKE MFG. CO., THE Wm. Pfum, Pres.; A. O. Alabaugh, Treas.	403 Beckel Bldg.
B-VV-NN	BURNET-LARSH CO. R. S. Shuey, V. Pres.-Pur. Agt.; H. J. Hunt, Supt.	Webster and Monument Ave.
C-W-X-DD	CALLAHAN, W. P. CO., THE R. J. Connelly, Pres.; R. A. Connelly, Treas.; L. W. James, V. Pres.; B. D. Moore, Secy.; W. W. Johnston, Fcty. Mgr.; E. H. Boesche, Pur. Agt.	901 E. Third St.
DD-II	CARROLL ENGR. CO., THE Wm. M. Carroll, Pres.-Gen. Mgr.; Thos. Carrol, V. Pres.	342 Xenia Ave.
F	CENTRAL PATTERN WORKS Harry A. Wise, Prop.	234 S. Findlay St.

We're Never Surprised When A "Peerless"
Reamer Hangs Up An Extraordinary
Record. It Happens So Often.

DAYTON, MONTGOMERY COUNTY, OHIO

Class	Firm and Personnel	Address
D	CENTRAL STAMPING & SPINNING CO., THE J. F. McBarron, Pres.; C. E. St. John, V. Pres.; E. McBarron, Secy.-Treas.	1601 E. Chapel
DD-II	CENTRAL TOOL & DIE CO., THE E. H. Pressler, Pres.-Gen. Mgr.; J. R. Baughman, V. Pres.; E. B. John, Secy.-Treas.	3rd & Madison
DD-II	CITY ENGINEERING CO., THE C. B. Geiger, Pres.-Gen. Mgr.-Pur. Agt.; Edw. E. Burkhart, V. Pres.-Treas.; A. J. Burgmeier, Jr., Secy.; M. Ehrhard, Gen. Supt.	35 So. St. Clair Street
B-DD-II	CITY MACHINE & TOOL WKS. F. C. Nickol, Prop.; O. M. Pook, Prop.	1517 E. 3rd Street
EE	CITY WELDING CO. Harry A. Gross, Prop.	41 St. Clair Avenue
VV	COFFIELD WASHER CO., THE J. L. Coffield, Pres.-Gen. Mgr.; W. J. Skelton, V. Pres.; R. E. Coffield, Secy.-Treas.; W. G. Stowell, Fcty. Mgr.-Gen. Supt.; F. S. Reeves, Prod. Mgr.; J. C. Ledger, P. A.	Miami Chapel Rd. & B. & O. R. R.
R	COLUMBIA CARBON CO., THE A. M. Heck, Pres.-Gen. Mgr.; L. M. Haynie, V. Pres.; E. W. Utz, Secy.; W. F. Dill, Treas.	15 E. 4th St.
BB-G-JJ	COLUMBIA STEEL & SHAFTING CO. OF PITTSBURGH Carl Toy, Dist. Rep.	618 2nd & Main Sts.
K	COMMON SENSE LIGHT CONTROL CO. H. W. Norris, Treas.	25 S. Main
KKK	COMPUTING SCALE CO. S. M. Hastings, Pres.-Treas.; T. J. Watson, V. Pres.; E. Canby, V. Pres.; G. W. Spahr, Secy.-Gen. Mgr.; G. N. McAninch, Asst. Treas.; R. Craig, Ch. Engr.; A. R. Hendricks, Pur. Agt.	448 Hoffman St.
K	CONCORD MFG. CO. Wm. Haas, Prop.	429 E. 3rd St.
D	CONSOLIDATED MFG. CO. Jos. Meyer, Prop.	28 N. Canal St.
S	COOVER RAILROAD TRACK BRACE CO., THE J. G. Mueller, Gen. Mgr.	515 E. Third St.
	CRAWFORD, MCGREGOR & CANBY CO. H. B. Canby, Pres.-Secy.; W. J. Blakeney, V. Pres.-Treas.	
DD-II	CRITERION TOOL & ENGR. CO. Frank Moeschl, Prop.	3rd & Madison
DD-II	CUSTER SPECIALTY COMPANY L. L. Custer, Prop.	119 W. Franklin Street
BB-G-JJ	CYCLOPS STEEL CO., THE A. R. Adelbery, Dist Mgr.	
L	DARCO ENGINEERING CO. G. F. Deady, Gen. Mgr.	Davies Bldg.
H-M-X-DD-VV	DAVIS SEWING MACHINE CO., THE F. T. Huffman, Ch. Board; C. A. Hawkins, Pres.-Treas.; J. M. Huffman, V. P.-G. M.; H. M. Huffman, V. Pres.-Sales Mgr.; G. P. Huffman, V. Pres.; O. L. Comba, Secy.-Asst. Treas.; C. W. Fliedner, Auditor & Asst. Secy.; C. S. Budroe, Supt.; J. C. Cunningham, P. A.	Linden & Davis Ave.
QQ	DAVIS & SHERER CO., THE Albert Davis, Pres.; Archie Sherer, Secy.-Treas.	113 S. Ludlow
D	DAYTON ALUMINUM & MFG. CO., THE Information withheld.	415 W. 5th St.
U	DAYTON APPLIANCE CO., THE Ernest Boehme, Pres.; Louis Ruthenburg, V. Pres.; Frank J. Heinfeld, Secy.-Treas.	Shawnee & Wyandot Sts.
E	DAYTON AUTOMOTIVE WHEEL CO., THE G. H. Gorman, Pres.; E. J. B. Gorman, V. Pres.-Treas.; A. R. Cowden, Secy.; J. J. Weisner, G. M.	Huffman & Linden Ave.
VV-B-C	DAYTON BEATER & HOIST CO. C. P. Folsom, Prop.; L. E. Halteman, Prop.	22 N. Canal
H-X	DAYTON BRASS CASTINGS CO., THE J. D. Platt, Jr., Pres.-Treas.; Thos. F. McDonald, Secy.-Treas.-Gen. Mgr.	Homestead Ave.

DAYUON, MONTGOMERY COUNTY, OHIO

Class	Firm and Personnel	Address
H-X-DD	DAYTON BRONZE BEARING CO., THE M. L. Isreal, V. Pres.; W. B. Israel, Secy.-Treas.-Gen. Mgr.; L. D. Ebbers, Gen. Supt.; H. D. Israel, Pur. Agt.	908 E. Third St.
M-Y	DAYTON CAR WRENCH CO. Harry L. Flack, Mgr.	8 S. Brown Ave.
H-X	DAYTON CASTINGS CO., THE Jos. F. Westendorf, Pres.-Gen. Mgr.-Fcty. Mgr.; J. F. Hoersting, V. Pres.; John Westendorf, Secy.-Treas.-Pur. Agt.; Walter Weckesser, Prod. Mgr.; E. G. Ackerman, Gen. Supt.	Kiser & Chapel Sts.
FFF	DAYTON DENTAL SUPPLY CO., THE H. E. Corley, Pres.; F. H. Hamilton, V. Pres.; C. A. Rost, Secy.	5th & Jefferson
	DAYTON DISPLAY FIXTURE CO. Fred Olt, Pres.; C. R. Freer, Secy.; Louis L. Reinhard, Treas.	1814 W. 3rd St.
L-R-E-H-X	DAYTON ENGINEERING LAB. CO., THE C. F. Kettering, Pres.-Gen. Mgr.; A. P. Sloan, Jr., V. Pres.; B. G. McCann, Secy.-Treas.	329 E. 1st St.
QQ	DAYTON FAN & MOTOR CO., THE E. Boehme, Pres.; M. D. Larkin, Secy.-Treas.	Monument and Meigs
III	DAYTON FARE RECORDER CO., THE W. I. Ohmer, Pres.; H. N. Riehle, Secy.; H. J. Luikert, Treas.	4th & St. Clair
MM	DAYTON FILE WORKS Richard Cramer, Prop.	16 N. Clinton
M-O	DAYTON FORGING & HEAT TREATING CO., THE William H. Hewitt, Pres.-Gen. Mgr.; Joseph Meyer, V. Pres.; Henry Hollander, Secy.-P. A.; Burt E. Dohner, Treas.; Charles Hewitt, Gen. Supt.	825 Germantown St.
	DAYTON FRICTION TOY WKS. CO. W. B. Wright, Pres.; N. S. Talbott, V. Pres.; N. W. Kirkpatrick, Treas.	Albany & Hawthorne St.
DD	DAYTON GLOBE IRON WORKS H. K. Anderson, Gen. Mgr.; G. W. Clark, Supt.; A. J. Weiss, Ch. Engr.	833 S. Ludlow St.
AA	DAYTON GRINDING WHEEL CO., THE C. S. Henry, Pres.; F. R. Henry, V. Pres.-Treas.-Gen. Mgr.; F. S. Gardner, Secy.	Summit & Negley Place
	DAYTON HANDLE & GOLF CO., THE L. W. Crandall, Pres.; H. C. Bratt, V. Pres.; R. H. Crandall, Secy.; H. H. Stuart, Treas.	Home Ave. & B. & O. Ry.
DD-II	DAYTON INSULATING DIE CO. C. A. Kurz, Pres. Treas.; J. D. Kurz, Secy.	Broadway & Norris
BB-G-K	DAYTON IRON & STEEL CO., THE C. B. Ozias, Pres.-Treas.; T. E. Howell, V. Pres.; H. W. Lehman, Secy.; O. L. Condit, Mgr. Automotive Equip. Dept.; S. Lanz, Mgr. Steel Dept.	119 E. Third St.
K-QQ	DAYTON IRRIGATION CO. J. H. Keys, Pres.; E. P. Christ, Secy.-Treas.; B. L. Williams, Supt.	263 S. High St.
DD	DAYTON MACHINE PRODUCTS CO., THE L. E. Hamer, Pres.-Treas.; F. T. Lindsey, V. Pres.-Secy.	35 St. Clair Ave.
H-X	DAYTON MALLEABLE IRON CO., THE J. C. Haswell, Pres.-Gen. Mgr.; M. F. Gartland, 1st V. P.; H. D. Hunter V. P.-Sales Mgr.; W. B. Runyan, V. Pres.-Gen. Supt.; W. H. Cassel, Secy.	1307 W. Third—Also Ironton, O.
S-H-X-K	DAYTON MFG. CO., THE John Kirby, Jr., Pres.-Gen. Mgr.; Nelson Emmons, Jr., V. Pres.-Asst. Gen. Mgr.; Jos. Leidinger, 2nd V. Pres.; H. D. Hendrick, Secy.-Treas.; B. F. Burt, Supt.; E. L. Eidenmiller, Pur. Agt.	2240 E. Third St.
	DAYTON MECHANICAL TIE CO., THE T. A. Ferneding, Pres.; R. J. Wells, Secy.-Treas.	704 Commerical Bldg.
E	DAYTON METAL BODY CO., THE C. Spriggs, V. Pres.; H. J. Oakes, Secy.-Treas.	500 N. Kiser
L	DAYTON MORGAN ENGR. CO., THE Arthur E. Morgan, Pres.; L. L. Hiding, V. Pres.; Ned H. Sayford, V. Pres.; C. A. Bock, Secy.; H. A. Wiersema, Treas.	504 Ludlow Bldg
AAA	DAYTON OXYGEN & HYDROGEN PRODUCTS CO., THE C. A. Kurz, Sr., Pres.; C. A. Kurz, Jr., Treas.-Gen. Mgr.; Geo. Walther, Secy.	Broadway & Morris
F	DAYTON PATTERN MFG. CO. W. E. Merkle, Prop.; R. E. Lee, Prop.	32 S. St. Chair Ave.

DAYTON, MONTGOMERY COUNTY, OHIO		
Class	Firm and Personnel	Address
M-K	DAYTON PIPE COUPLING CO., THE Frank Collins, Pres.; Chas. R. Clapp, Secy.; R. J. Moore, Gen. Mgr.-Fcty. Mgr.; L. G. Maag, Gen. Supt.; L. V. Weimert, Pur. Agt.	Edmund St. & B. & O. R. R.
OO	DAYTON PNEUMATIC TOOL CO. W. W. Price, Pres.; A. B. Hilton, Jr., V. Pres.-Gen. Mgr.; L. B. George, Secy.; N. Emmons, Treas.; C. E. Russell, Wks. Mgr.; H. W. Norton, Ch. Engr.; Fred Swankhous, Supt.; W. H. Speidel, Pur. Agt.	Miami Chapel Rd.
NN	DAYTON PUMP & MFG. CO. F. M. Taft, Pres.-Gen. Mgr.; A. J. Pocock, V. Pres.; R. E. Eagle, Secy.-Treas.; H. F. Glass, Sales Mgr.; J. M. Deam, Auditor.	607 Schwind Bldg.
DD-II	DAYTON PUNCH & DIE CO. Leo A. Oweiger, Prop.; Geo. Schoettinger, Prop.	14 N. Canal
YY	DAYTON RUBBER MFG. CO., THE John A. MacMillan, Pres.-Gen. Mgr.; C. E. Hooven, V. Pres.-Secy.; Robt. F. Brown, Treas.; A. L. Freedlander, Fcty. Mgr.; H. S. Moosadian, Gen. Supt.; Phil Haus, Master Mech.; R. C. Hunter, Pur. Agt.; Claude Opdyke, Asst. Pur. Agt.	
DD	DAYTON SPECIALTY MCH. CO. Joseph Friend, Prop.; Fred J. Blesi, Prop.	1 S. Hollencamp Ave.
KKK	DAYTON STANDARD SCALE CO., THE James F. Barnes, Pres.; Joseph Westendorf, V. Pres.; William E. Watson, Secy.-Treas.	Miami Chapel Rd. & B. & O. R. R.
H-X-E	DAYTON STEEL FDY. CO., THE Geo. Walther, Pres.-Sales Mgr.; G. E. Nicholas, V. Pres.; W. A. Pierce, Secy.-Treas.; Jacob Walther, Gen. Mgr.-Fcty. Mgr.; F. H. Walkley, Ch. Engr.; J. H. Borghardt, Gen. Supt.; Claude Leslie, Master Mech.; J. A. Graham, Pur. Agt.	Miami Chapel Rd. & B. & O. R. R.
L-ZZ	DAYTON STRUCTURAL STEEL CO., THE J. A. Burger, Pres.; C. J. Burger, V. Pres.-Fcty. Mgr.-Gen. Supt.; F. D. Slutz, V. Pres.; F. C. Worbs, Secy.-Gen. Mgr.-Pur. Agt.-Ch. Engr.; M. M. Kindig, Treas.	Howell & Parker Streets.
D	DAYTON TOY & SPECIALTY CO., THE C. C. Blackmore, Pres.; J. F. G. Blackmore, V. Pres.; F. E. Hamilton, Secy.-Treas.-P. A.; J. G. Alexander, Gen. Mgr.	1015 E. Fifth St.
V-DD	DAYTON TRACTOR CO. E. A. Bruenerman, Pres.-Gen. Mgr.-Pur. Agt.; H. Gascho, Secy.-Treas.	1619 Highland St.
E	DAYTON UNIVERSAL STARTER CO. Thos. E. Christie, Gen. Mgr.; O. D. Noble, Sales Mgr.	408 W. Holt
EE	DAYTON WELDING CO., THE L. O. Blackwell, Pres.; C. G. Blackwell, V. Pres.-Gen. Mgr.	13 St. Clair Ave.
N	DAYTON WIRE WHEEL CO., THE A. N. Wilcox, Pres.; L. H. Rogge, V. Pres.-Treas.; Chas. L. Miller, Secy.	Miami Chapel Rd.
V-E	DAYTON WRIGHT CO., THE H. E. Talbott, Pres.; C. F. Kettering, V. Pres.; C. J. Sherer, Secy.-Treas.; G. M. Williams, Gen. Mgr.; H. D. Geyer, Fcty. Mgr.; V. E. Clark, Ch. Engr.; W. S. Whittaker, Pur. Agt.; J. L. Primmer, Asst. Pur. Agt.	Moraine City
III	DEMING INDICATOR CO. C. M. Deming, Prop.	32 S. Jefferson St.
H-X	DENNICK, WM. & SON Mrs. Wm. Dennick, Pres.; William C. Dennick, Secy.-Treas. P. A.; Chas. Kuhns, Gen. Mgr.	1415 E. Fifth Street.
BB	DICKERSON STEEL CO., THE A. V. Dickerson, Pres.-Treas.; L. S. Jacobson, Secy.	1103 American Bldg.
B-U-DD-II	DIMLER MCH. TOOL CO., THE W. J. Dimler, Pres.-Gen. Mgr.; Dr. W. H. Sells, V. Pres.; R. C. Nevin, Secy.; C. G. Moon, Treas.	2903 W. Third St.
	DOMINANT MFG. CO., THE Jos. Brook, Pres.; Harry Goodman, V. Pres.; D. H. Brook, Secy.-Treas.	132 E. 4th St.
H-X	DURIRON CO., THE (Inc.) Pierce D. Schenck, Pres.; W. E. Hall, V. Pres.; J. R. Pitman, V. Pres.; J. Dart, Jr., Secy.; R. A. Herbruck, Treas.	Findlay and C. C. C. & St. L. Railway
DD-II	EAST DAYTON TOOL & DIE CO. C. F. Rausch, Prop.	2915 E. 5th St.

DAYTON, MONTGOMERY COUNTY, OHIO

Class	Firm and Personnel	Address
F	EAST END PATTERN WORKS A. H. Schneider, Prop.	311 S. Torrance
DD-II	EDGAR TOOL CO., THE A. A. Edgar, Pres.; H. E. Bratt, V. Pres.; O. H. Landersieck, Secy.-Treas.	650 S. Main St.
Y	EDGEMONT MACHINE CO., THE W. P. Coffman, Pres.; O. B. Coffman, Secy.; J. I. Coffman, Treas.-Pur. Agt.	
DD-II	EFFICIENCY TOOL CO., THE Wm. H. Carroll, Pres.; Edward Glaser, V. Pres.; Thomas Gibson, Secy.; Wm. H. Jeans, Treas.	823 Richard
III	EGRY REGISTER CO., THE M. C. Stern, Pres.; Elmer Rauh, V. Pres.-Fcty. Mgr.; Lawrence Rauh, Secy.-Treas.; Milton C. Stern, Gen. Mgr.; H. Tinnerman, Gen. Supt.; L. M. Smith, Pur. Agt.	E. Monument Ave.
EE	ELECTRIC WELDING COMPANY L. F. Perkins, Prop.; Geo. Wolfe, Prop.	504 S. Main St.
	ELECTRIC CHEMICAL CO., THE E. E. Niswonger, Pres.; D. R. Niswonger, V. Pres.; S. G. Sheller, Secy.-Treas.	111 W. Court
DD-II	EMPIRE TOOL CO., THE A. M. Ibaugh, Pres.-Gen. Mgr.; W. S. Taylor, V. Pres.; C. B. Kinzig, Secy.-Treas.	701 E. 1st St.
	ENGINEERING SUPPLY CO., THE W. E. Baker, Pres.; O. T. Kreusser, V. Pres.; C. B. Hoffman, Secy.-Treas.	2nd & Main Sts.
DD-II	EUREKA TOOL & DIE CO., THE L. O. Shank, Pres.; G. J. Capaliski, V. Pres.-Gen. Mgr.; C. E. Monnier, Secy.-Treas.-Supt.	35 St. Clair Ave.
L	FARRELL, STONEHAM ENGR. CO., THE J. P. Farrell, Pres.-Gen. Mgr.; W. A. Stoneham, Secy.-Treas.	Dakota & Mathison
F	FEDERAL PATTERN WORKS W. L. Julien, Prop.; Thos. Mitchell, Prop.	24 N. Cana
B-DD-II	FEDERAL TOOL & MACHINE CO., THE W. A. Stoneham, Pres.; J. P. Farrell, Treas.-Gen. Mgr.; W. G. Pickrel, Secy.	Dakota & Mathison
B-DD-II	FERNWOOD MFG. CO., THE C. F. Kuhls, Pres.-Gen. Mgr.; H. C. Kuhls, V. Pres.; H. W. Kuhls, Secy.-Treas.	719 N. Main St.
R	FLETCHER MFG. CO., THE John R. Fletcher, Pres.; Geo. W. Chaffin, V. Pres.; Gen. Supt.-Pur. Agt.	Md. & Canal St.
D	FOGARTY MFG. CO., THE W. J. Fogarty, Pres.-Gen. Mgr.; N. M. Stanley, V. Pres.; D. N. Davis, Secy.; G. F. Stanley, Treas.-Sales Mgr.	
DD-II	FOUR "L" MACHINE WORKS A. L. Beal, Prop.; R. L. Angell, Prop.; T. L. Beal, Prop.; J. L. Kine, Prop.	823 E. Richard St.
	FYR-FYTER CO., THE R. C. Iddings, Pres.-Gen. Mgr.; G. N. Lingham, V. Pres.; A. S. Iddings, Secy.; D. W. Iddings, Treas.; J. E. Bowman, Fcty. Mgr.-Gen. Supt.; J. F. Story, Pur. Agt.; E. R. Conrad, Sales Mgr.	221 Crane St.
DD-II-T	GARRISON MACHINE WORKS O. Garrison, Prop.	22 S. St. Clair St.
H-X	GARTLAND HASWELL RENTSCHLER FDY. CO. Gordon S. Rentschler, Pres.; M. F. Gartland, V. Pres.; John C. Haswell, Secy.-Treas.; F. A. Schneider, Gen. Mgr.	1030 E. Herman Ave.
C	GEM CITY BOILER CO., THE T. E. Tucker, Pres.; A. H. Kemper, V. Pres.-G. M.-P. A.; W. H. Durkin, Secy.-Treas.-Ch. Engr.; C. F. Clemens, Fcty. Mgr.-Gen. Supt.	1277 Leo Street
Z	GEM CITY ELEVATOR WORKS John Cunningham, Prop.	612 E. Washington
UU	GEM CITY LEATHER BELTING CO. John Deremo, Prop.; Jacques Lang, Prop.	310 S. Wayne Ave.
F	GEM CITY PATTERN WORKS Henry J. Kastner, Prop.	261½ N. Canal St.
GGG	GEM CITY STOVE CO., THE A. M. Gummer, Pres.; C. H. Gummer, V. Pres.; A. J. Conover, Secy.	508 S. Linden Ave.
L	GENERAL MOTORS RESEARCH CORP. C. F. Kettering, Pres.; E. Kramer, Gen. Mgr.; R. H. Burner, Pur. Agt.; W. H. Speedel, P. A.	Box No. 745

DAYTON, MONTGOMERY COUNTY, OHIO

Class	Firm and Personnel	Address
B-DD-II	GENERAL TOOL & MCH. CO., THE B. H. Ziehler, Pres.; O. A. Miller, V. Pres.-Treas.; C. J. Osterday, Acting Secy.; Thos. H. Cashatt, Gen. Mgr.	2nd & Main Sts.
GG	GERSTNER, H. & SONS Herman Gerstner, Prop.; Harry H. Gerstner, Prop.; David F. Gerstner, Prop.	Cinti. & Columbia
DD-II	GLOBE TOOL & ENGR. CO., THE H. F. Detzel, Pres.; A. E. Shively, Secy.-Treas.	14 N. Canal St.
C-ZZ-K	GRAVES & MARSHALL CO., THE George L. Marshall, Pres.; Geo. W. Marshall, V. Pres.-G. M.-Pur. Agt.-Sales Mgr.; Gaylord L. Marshall, Secy.-Treas.-Asst. Pur. Agt.; A. W. Hooand, Fcty. Mgr.; George Holland, Ch. Engr.	716 E. Monument Avenue
DD	GREEN ENGR. COMPANY Carl R. Green, Prop.	S. Main St.
	GRETHER FIRE EQUIPMENT CO. Wm. G. Grether, Prop.	312 E. 2nd St.
EE	GROSS, H. A. H. A. Gross, Prop.	41 St. Clair St.
K	HAAS, PHILIP CO. Phillip Haas, Prop.	123 N. Webster
B	HAWKER, W. S. MFG. CO. W. S. Hawker, Prop.	458 E. Bacon St.
H-X	HOBAN BRASS FOUNDRY CO. John P. Hoban, Jr., Gen. Mgr.	44 S. Wyandot
EE	IDEAL WELDING CO., THE John D. Kerr, Pres.; Albert H. Sharrer, Secy.; Eugene F. O'Neil, Treas.	344 S. Main St.
	INDUSTRIAL PRODUCTION ENGR. CO., THE Frank Walter, Pres.; W. J. Schneider, V. Pres.; Wm. Watson, Secy.; Wilbur Kraft, Treas.	33 E. Greenwood
DD-II	INDUSTRIAL TOOL, DIE & ENGR. CO., THE E. A. Stier, Pres.-Treas.; G. D. Ludington, Secy.	322 E. 5th St.
TT	INTERNATIONAL CLAY MCHY. CO., THE	(See Bahmann Iron Works Co.)
B	INTERNATIONAL SOAP MCHRY CO. A. H. Lammers, Pres.-Treas.; H. E. Wurlitzer, V. Pres.; H. V. Metzel, Secy.	24 N. Jefferson
KKK	INTERNATIONAL SCALE CO., THE Information withheld.	315 Canby Bldg.
S-CC-QQ	JOYCE-CRIDLAND CO., THE Wm. F. Bippus, Pres.-Treas.; J. M. Switzer, V. Pres.; H. W. Pearce, Secy.; C. W. Ripsch, Ch. Engr.-Gen. Supt.; J. W. Osborn, Pur. Agt.; Lloyd Weeks, Asst. P. A.	333 Linden Ave.
L	KELSO, CHAS. M. COMPANY C. M. Kelso, Pres.; F. B. Steele, V. Pres.	1065 Riebold Building
BB-I-Y-UU	KLINGER-DILLS CO., THE P. W. Klinger, Pres.-Pur. Agt.; R. T. Dills, V. Pres.-Gen. Mgr.; S. D. Klinger, Secy.-Treas.	129 N. Jefferson St.
DD-II	KNOWLES TOOL MFG. CO., THE Harry Gerstner, Pres.; C. H. Knowles, V. Pres.-Gen. Mgr.; J. F. Stickel, Secy.; Phillip Haas, Treas.	125 N. Webster
H-X	KRAMER BROS. FDY. CO., THE Geo. H. Kramer, Pres.-Gen. Mgr.; B. H. Kramer, V. Pres.-Gen. Supt.; E. F. Loges, Secy.-Treas.-Pur. Agt.; Roy D. Fitzgerald, Fcty. Mgr.; E. V. Gilbert, Ch. Engr.	51 Dell St.
H-X-K-DD	KUHNS BROTHERS G. F. Kuhns, Wm. N. Kuhns, H. B. Kuhns, W. L. Kuhns, Props.	Eaton and Euclid Aves.
DD-II	LANG, C. W. C. W. Lang, Prop.	105 S. Perrine St.
BB-I-PP	LARKIN, M. D. SUPPLY CO. M. D. Larkin, Pres.-Treas.; Carl Woessoner, Gen. Mgr.-Pur. Agt.-Sales Mgr.	501 E. 3rd St.
A-B-L-DD-II	LARKIN AUTOMOTIVE PARTS CO., THE D. C. Larkin, Sr., Pres.; D. C. Larkin, Jr., V. Pres.-Gen. Mgr.; F. E. Larkin, Secy.-Treas.; James Dillon, Fcty. Mgr.; C. E. Brown, Ch. Engr.; A. S. Pride, Pur. Agt.	2001 Home Ave.
	LARKIN MFG. CO. M. D. Larkin, Pres.; F. E. Larkin, Secy.-Treas.-G. M.-P. A.; C. L. Hardy, Gen. Supt.	5th and Stone Sts.

DAYTON, MONTGOMERY COUNTY, OHIO

Class	Firm and Personnel	Address
H-X	LEGLER-EILERMAN CO., THE T. A. Legler, Pres.-Treas.; B. F. Eilerman, V. Pres.-Secy.; H. C. Haenggi, Ch. Engr. H. J. O'Brien, Pur. Agt.	Bacon St.
	LIBERTY TOOL & PRODUCTION CO., THE H. L. Beeler, Pres.-Treas.; M. N. Steele, Secy, Treas.	26 N. Main St.
BB-G-JJ	LLEWELYN, G. W. & CO. G. W. Llewellyn, Prop.; C. C. Hooven, Prop.	2nd and Main
NN-OO	LUCAS-MINER TOOL & PROD. CO., THE J. Westendorf, Pres.; H. Meyers, V. Pres.; J. Frey, Secy.; O. E. Black, Treas.-Gen. Mgr.	427 Valley St.
DD-II	McBARRON-MITCHELL TOOL CO. Wm. H. McBarron, Prop.; J. G. Mitchell, Prop.	5th & Norwood Ave.
L	McCORMICK LABORATORIES CO., THE F. J. McCormick, Jr., Pres.	612 Schwind Bldg.
DD	MADISON MACHINE & REPAIR WKS. G. W. Humphreys, Prop.; G. W. Borchers, Prop.	17 N. Madison
TT	MANUFACTURERS EQUIP. CO., THE J. L. Schroll, Pres.; I. M. Justice, V. Pres.; Wm. H. Sachs, Treas.; E. M. Mahlmeister, Treas.-P. A.; J. C. Wirick, Asst. Secy.-Asst. Treas.; J. W. Worrall, Gen. Mgr. Supt.	Michigan Ave. & Keifer
	MANUFACTURERS PRODUCTION CO. Nelson Emmons, Jr., Pres.; H. R. Talbott, V. Pres.-Treas.; J. M. Huffman, Secy.; Howard Beck, Asst. Secy.-Asst. Treas.; J. E. Jones, Managing Director.	216 N. Main St.
	MAST LIGHTNING ROD CO. L. L. Mast; F. L. Mast; C. O. Mast.	929 Reibold Bldg.
R	MASTER ELEC. CO., THE E. P. Larsh, Pres.-Gen. Mgr.-Pur. Agt.; W. R. Clements, V. Pres.; J. A. Wortman, Secy.; H. E. Kline, Treas.; F. H. Johnson, Fcty. Mgr.; E. W. Brockmeyer, Ch. Engr.;	460 Bacon St.
YY	MASTER TIRE & RUBBER CO., THE W. B. Ruston, Pres.; G. H. Witsman, V. Pres.; H. G. Egbert, Treas.; J. T. Nielson, Secy.	Leo & B. & O. Ry.
E	MAXWELL MOTOR CORP. Information withheld.	
E	MEEKER MFG. CO., THE Geo. Rogge, Pres.; H. F. Rogge, V. Pres.-Treas.-Gen. Mgr.; E. C. Snyder, Secy.	Linden & Huffman Ave.
QQ	METALLIC CONSTRUCTION CO., THE A. A. Sherer, Pres.; R. E. Condit, V. Pres.; Albert Davis, Secy.	20 S. Shawnee
H-X-K	MIAMI BRASS FDY. CO., THE Benj. Semmelman, Pres.; Abe Semmelman, V. Pres.-Gen. Mgr.; Blanche, Semmelmen, Secy.-Treas.	101 S. McDonough
DD-II	MIAMI ENGR. CO., THE L. R. Briggs, Pres.; J. F. Hartman, Secy.; Chas. Barton, Treas.	206 E. 5th St.
BB-G	MIAMI IRON & STEEL CO., THE John A. Thiele, Pres.-Treas.; Garret A. Wyatt, V. Pres.; Robert E. Conden, Secy.	3rd & St. Clair Sts.
DD-II	MIAMI TOOL & DIE CO., THE G. E. Keller, Pres.-Gen. Mgr.; Albert Pretziner, V. Pres.; A. F. Diers, Secy.-Treas.	St. Paul & Huffman Aves.
F	MIDLAND PATTERN WORKS E. A. Hale, Prop.	15 N. Madison
B-DD-II	MONARCH ENGR. CO., THE F. A. Wagner, Pres.-Gen. Mgr.; E. J. Deville, V. Pres.; F. W. Gruen, Secy.	240 E. 1st St.
B	MONARCH MARKING SYSTEM CO., THE Fred Kohnle, Pres.-Gen. Mgr.; R. C. Kohnle, V. Pres.; E. L. Kohnle, Secy.-Treas.;	216 S. Torrance
B-DD-II	MONTGOMERY TOOL & MFG. CO., THE	1st & Madison
DD-II	MOORE-EASTWOOD MFG. CO., THE N. W. Mearick, Pres.; H. C. Moore, V. Pres.; E. F. Moore, Secy.-Treas.	114 E. 4th
F-H-X	MORNER & SMITH L. M. Morner, Prop.; Chas. D. Smith, Prop.	8 N. Canal
L	MORRISON, W. G. W. G. Morrison, Prop.	602 Callahan Bk. Bldg
III	NATIONAL CASH REGISTER CO., THE J. H. Patterson, Pres.-Gen. Mgr.; J. H. Barringer, 1st V. Pres.-Asst. Gen. Mgr.; H. G. Carnell, 2nd Vice Pres.-Treas.; F. B. Patterson, 3rd V. Pres.-Secy.	Main and "K" Sts.

DAYTON, MONTGOMERY COUNTY, OHIO			
Class	Firm and Personnel	Address	
M	NATIONAL DROP FORGING CO., THE C. A. Lamb, Pres.; J. D. Chamberlin, V. Pres.; D. C. Anderson, Secy.-Treas.	Harshman & Crane	
GGG-QQ	NATIONAL FURNACE CO., THE G. L. McHose, Secy.-Treas.	341 E. 5th St.	
F	NATIONAL PATTERN WKS. Chas. Schultz, Prop.	114 E. 4th St.	
A-B-DD-II	NATIONAL STEEL PRODUCTS CO., THE J. G. Petosky, Pres.; L. M. Heister, V. Pres.-Gen. Mgr.; J. G. Lehman, Secy.-Treas.	1102 E. Second	
	NEMETH RESEARCH MFG. CO., THE Harry Fluhart, Pres.; R. E. Buvington, Secy.; E. J. Finke, Treas.; Steve Nemeth, Gen. Mgr.	1st & Sears	
B-DD-II	NORTH DAYTON MCH. & TOOL CO., THE A. W. Sensel, Pres.-Treas.; T. B. Herrman, V. Pres.; S. O. Rohlfis, Secy.	126 N. Valley	
F	NORTH DAYTON PATTERN WKS. F. C. Hennessy, Prop.	427 N. Valley	
DD-II	NORTH SIDE TOOL CO., THE Geo. Serapin, Pres.; Wm. A. Thompson, Secy.-Treas.	17 N. Maryland Ave.	
NN-K-E	O. K. MFG. CO., THE Chas. H. Rogge, Pres.-Fcty. Mgr.; Joe D. Baughman, V. Pres.; Ethel Rogge, Secy.-Treas.; A. C. Jones, Gen. Mgr.; Carl Dwinell, Prod. Mgr.	40 Potomac St.	
BB-G-QQ	OHIO METAL & MFG. CO., THE F. E. McBride, Pres.-Treas.-Pur. Agt.; C. J. Faulkner, V. Pres.-Gen. Mgr.; O. Anderson, Fcty. Mgr.; R. Diemer, Asst. Pur. Agt.		
DD-D	OHIO METAL PRODUCTS CO., THE J. H. Dohner, Pres.; S. W. Dohner, V. Pres.; B. E. Dohner, Secy.-Treas.	39 N. Bates	
RR	OHIO RAKE CO., THE W. D. Graves, Pres.; J. H. Imus, V. Pres.; Wm. D. Graves, Jr., Secy.-Treas.; O. L. Archer, Asst. Secy.	C. C. C. & St. L. & B. & O. R. R.	
DD-II	OHIO TOOL COMPANY Ed. Dill, Gen. Mgr.	650 S. Main St.	
III	OHMER FARE REGISTER CO. John F. Ohmer, Pres.-Gen. Mgr.; H. B. Ohmer, V. Pres.-Fcty. Mgr.-Gen. Supt.; J. H. Stedman, Secy.; W. B. Farnham, Treas.; F. O. Gray, Ch. Engr.; J. B. Mills, Prod. Mgr.; R. M. Ohmer, Pur. Agt.; R. L. Hubler, Sales Mgr.	Bolander Ave. & Big 4 R. R.	
BB-I-K-PP	PATTERSON TOOL & SUPPLY CO., THE Wm. B. Patterson, Pres.; Theo. E. Fritch, V. Pres.-Treas.; Wm. R. Kemper, Secy.; F. B. Moorman, Asst. Secy.	123 E. 3rd	
R	PEERLESS MOTOR & MFG. CO. F. A. Hahne, Prop.	310 E. 5th St.	
OO	PEERLESS TOOL COMPANY W. R. Belleman, Prop.; Andrew Strom, Prop.	16 N. Canal St.	
B-DD-II	PERMANENT TOOL & MFG. CO. Elmer W. Kramer, Pres.; J. H. Horstman, V. Pres.; A. B. Horstman, Secy.-Treas.; N. W. Sambeis, Gen. Mgr.-Fcty. Mgr.; Anton Horstman, Ch. Engr.	816 Highland Ave.	
NN-K	PLATT IRON WORKS Information withheld.	303 N. Keowee	
B	POOLE LINEOGRAPH MFG. CO., THE G. W. Miller, Pres.; Wm. Haas, V. Pres.; W. W. Price, Secy.; Edw. Wiuchert, Treas.	300 N. Troy	
YY-R	PREMIER RUBBER MFG. CO., THE Jos. F. Westendorf, Pres.; Wm. F. Grieser, V. Pres.; John Westendorf, Secy. Treas.; Henry Spatz, Gen. Mgr. Pur. Agt.; Fred Moon, Fcty. Mgr.	Edmund St. & B. & O. R. R.	
YY-XX	PREMIER RUBBER INSULATOR CO., THE Wm. Grether, Pres.; Henry Spatz, Gen. Mgr.; Wm. Greiser, V. Pres.; J. H. Shively, Secy.-Treas.	Michigan Ave. & Elmwood	
B-DD-II	PROGRESSIVE TOOL & ENGR. CO., THE H. W. Bonbright, Pres. G. M. Fcty. Mgr. P. A.; H. E. Fisher, V. Pres.; S. J. Rosener, Secy. Treas.	119 Franklin St.	
DD-E	R. S. MFG. CO. OF KANSAS CITY, MO. Information withheld.	1101 E. 2nd S'	

DAYTON, MONTGOMERY COUNTY, OHIO

Class	Firm and Personnel	Address
KKK	RECORDING & COMPUTING MCHS. CO., THE..... W. I. Ohmer, Pres.; H. N. Riehle, Secy.; H. J. Luikert, Treas.	Wisconsin Blvd. & Miami Chapel Road.
H-X-E-D-T-DD	RECORDING DEVICES CO., THE..... H. G. Diefendorf, Pres.-Gen. Mgr.; E. F. Brown, Secy.-Treas.; G. F. McClellan, Ch. Engr.; E. J. Kleist, Pur. Agt.	5th & River
DD-II	RELYABLE MFG. CO., THE..... W. J. Fogarty, Pres.-Gen. Mgr.;	Webb and Hydraulic
D-DD-II	REPUBLIC TOOL PRODUCTS CO., THE..... F. H. Poppelmeier, Pres.; E. D. Miller, V. Pres.; L. B. Kronauge, Secy. Treas.; C. F. Black, G. M. P. A. S. M.	300 N. Troy St.
L-E	RESEARCH ENGR. CO., THE..... O. H. Spencer, Pres.-Treas.-Gen. Mgr.-Ch. Engr.; E. B. Spencer, V. Pres.; Thos. E. Garster, Secy.; Herman Garner, Fcty. Mgr.-Prod. Mgr.; Rex Sprinkle, Gen. Supt.; Bernard Sassen, Master Mech.; Phillip McDowell, Pur. Agt.; C. J. Weise, Sales Mgr.	39 Patterson Bldg.
B	REX FILM RENOVATOR CO., THE..... R. D. Hanish, Pres.; F. W. Krehbiel, V. Pres.; Geo. Eastman, Secy.; E. R. Mueller, Treas.	801 Reibold Bldg.
R	RICE ELECTRIC DISPLAY CO., THE..... E. E. Rice, Pres.-Treas.	1001 American Bldg.
	RIKE FOLDING BOX CO., THE..... B. I. Rike, Pres.; B. S. Murphy, V. Pres.; Jos. Weil, Secy.; J. R. Klin, Treas.-Supt.	Hartford & Campbell
NN-DD	ROBERTS, GEO. J. CO., THE..... Geo. Light, Pres.; Ed. Light, V. Pres.; J. C. Saunders, Secy.-Treas.	251 E. 2nd St.
	ROSS ENGR. CO., THE..... T. H. Ross, Pres.; J. F. Arnold, V. Pres.; V. E. Rice, Secy.; Thos. E. Ross, Treas.	1183 Reibold Bldg.
B	ROTOSPEED CO., THE..... J. A. Oswald, Pres.-Treas.; W. H. Young, V. Pres.-Sales Mgr.; H. P. Marshall, Secy.	Office, Elks Bldg.—Factory, 126 E. 3rd.
K	ST. CLAIR MFG. CO., THE..... Louis F. Frantz, Pres.-Pur. Agr.; John D. Hartman, Secy.; Howard E. Beck, Gen. Mgr.	114 North St. Clair St.
DD-EEE	SAUNDERS, JAS. C. CO., THE..... E. L. McCleary, Pres.-Wks. Mgr.; H. L. Orrman, V. Pres.; E. C. Borer, Treas.; A. H. Scharer, Secy.	22 N. Canal St.
	SCHIEBLE TOY & NOVELTY CO., THE..... Wm. E. Schieble, Pres.; H. S. Helmer, V. Pres.; S. Schieble, Secy.; B. B. Schieble, Treas.	15 E. Ice Ave.
BB-I-PP	SEIFREAT-WOODRUFF CO., THE..... Christ Seifreat, Pres.; E. C. Elstad, V. Pres.-Treas.	20 South Canal
B	SEYBOLD MACHINE COMPANY, THE..... Chas. Seybold, Pres.; Wm. L. Valiquette, V. Pres.-Gen. Mgr.; F. K. Barnhart, Secy.-Sales Mgr.; Frank H. Herbst, Treas.; John R. Lehman, Fcty. Mgr.; H. B. Irwin, Pur. Agt.	813 Washington St.
DD-II-FFF	SHEFFIELD MCH. & TOOL CO..... C. E. Watterson, Pres.-Treas.; O. A. Wilke, V. Pres.; H. E. Talbott, Jr., Secy.; A. A. Wilke, Pur. Agt.	35 S. St. Clair St.
N	SHOTT MFG. CO., THE..... J. J. O'Connor, Mgr.	117 N. Sears
MM	SIMMONDS, A. A. & SON CO..... H. R. Simmonds, Pres.-Treas. G. M. P. A.; C. S. Henry, V. Pres.; F. R. Henry, Secy.; F. M. Gloyd, Fcty. Mgr. Gen. Supt.	Summit & Negley Sts.
C-K-NN	SMITH GAS ENGR. CO., THE..... E. A. Deeds, Pres.; C. F. Kettering, V. Pres.; H. F. Smith, Secy.; R. M. Chatterton, Treas.-Gen. Mgr.; Earl E. Adams, Ch. Engr.	Br. of Lexington, Ohio
H-X	STANDARD FOUNDRY CO., THE..... J. D. Common, Pres.; Geo. H. W. Hottis, V. Pres.; Chas. W. Stephens, Secy.-Treas.; S. P. Greene, Mgr.	Bish Ave
B-DD-EEE	STANDARD MCH. & TOOL CO., THE..... James Saunders, Pres.; O. D. Meals, V. Pres.; P. J. Sheridan, Jr., Secy.; L. J. Harper, Treas.	320 E. 3rd
III	STANDARD REGISTER CO., THE..... J. Q. Sherman, Pres.; Wm. C. Sherman, V. Pres.-Secy.-Treas.	Albany & C. C. C. & St. L. Ry
	STANLEY MFG. CO., THE..... G. F. Stanley, Pres.; N. M. Stanley, V. Pres.; M. H. Stanley, Secy.-Gen. Mgr.; H. R. Walker, Treas.	

DAYTON, MONTGOMERY COUNTY, OHIO

Class	Firm and Personnel	Address
F	STAR PATTERN WKS. Chas. L. Templeton, Prop.	322 E. 3rd St.
C-NN	STEINER, M. & CO. Max Steiner, Prop.	242 S. Torrance St.
K-II-E	STEMCO ENGR. CO., THE Frank A. Groves, Pres. Gen. Mgr.; Carl A. Lange, V. Pres. Treas. Fcty. Mgr. P. A.; Edgar S. Newlin, Secy.; Walter N. Frank, Ch. Engr. Prod. Mgr.; Walter Meyer, Gen. Supt.; James Kelly, Master Mech.	2nd & Webb Sts.
D-R	THOMAS MFG. CO., THE C. W. Slaigle, Pres.; E. D. Hall, V. Pres.-Gen. Mgr.; R. N. Rumbaugh, Secy.; F. B. Jennings, Treas.	38 W. 5th
F-H-X-E	THOMSON, S. H. MFG. CO., THE S. H. Thomson, Pres.-Gen. Mgr.; R. H. Hummert, Secy.-Treas.; C. T. Burson, P. A.	New Beaver Power Bldg.
II-MM	TRIMBACH, GEO. Geo. Trimbach, Prop.	112 S. Brown
	TURNER, JOHN C. CO., THE J. C. Turner, Pres.-Treas.; Alva Black, V. Pres.; J. D. Hartman, Secy.;	
NN	VAILE-KIMES CO., THE E. T. Turner, Pres.; L. G. Gerry, Treas.; D. L. Stanze, Secy.-Asst. Treas.; Chas. P. Eisenhower, Wks. Mgr.; J. H. Masters, Ch. Engr.; S. R. Wing, Supt.; A. P. Vogus, Equip. Mgr.	35 S. St. Clair St.
DD-II	VALLEY ENGR. CO., THE C. F. Geiger, Pres. Treas. G. M.; F. C. Geiler, V. Pres. Secy.	427 N. Valley St.
B-DD-II	W. B. W. TOOL CO., THE H. L. Wirshing, Pres.-Treas.; H. C. Braun, V. Pres.-Gen. Mgr.; R. W. Wirshing, Secy.	Main & Bruen
L	WALTER ENGR. CO., THE F. L. Walter, Pres.; J. B. Forsythe, Secy.-Treas.	216 Ludlow Bldg.
BB-PP	WAYNE MACHINERY CO. W. L. Doench, Sales Rep.	130 Xenia Ave.—M. O. Ft. Wayne, Ind.
F	WEGLAGE BROS. PATTERN WKS. John H. Weglage, Prop.; Frank Weglage, Prop.; Albert Weglage, Prop.	351 N. Deeds Ave.
BB-R-K	WESTINGHOUSE ELEC. & MFG. CO. A. J. Reinhart, Dist. Rep.	1187 Reibold Bldg.
EE	WESTWOOD WELDING COMPANY Earl L. Greer, Prop.	453 N. Kilmer
S-II	WIEDEKE, GUSTAV & COMPANY Gustav Wiedeke, Pres.; Otto Wiedeke, Gen. Supt.	1833 E. Richard
QQ	WIESMAN MFG. CO., THE W. A. Wiesman, Prop.	14 N. Canal St.
D	WILSON UTENSIL COMPANY Harry Wilson, Pres.; Geo. Frost, Gen. Mgr.; Carl Wilkie, Fcty. Mgr.; J. Berdos, Sales Mgr.	431 E. Third St.
C	ZIMMERMAN BOILER & TANK CO. Wm. M. Zimmerman, Prop.	Irwin & Big Four Ry.

DEFIANCE, DEFIANCE COUNTY, OHIO

BB-AAA-FF	AIR REDUCTION SALES CO. S. H. Calender.	
GG	AMERICAN STEEL PACKAGE CO., THE C. M. Willoch, Pres.; M. D. Campbell, Secy.-Treas.	
GG-SS	DEFIANCE BOX CO., THE A. W. Martin, Pres.; J. L. Markley, Secy.-Treas.	
A-B	DEFIANCE MACHINE WORKS, THE C. H. Kettenring, Pres.; W. I. Watson, Secy.; C. C. Hoffman, Treas.	
E	DEFIANCE MOTOR TRUCK CO., THE C. H. Kettenring, Pres.; J. C. Ayres, V. Pres.-Gen. Mgr.; H. R. Morse, Secy.-Sales Mgr.; J. F. Robertson, Treas.; H. K. Reinoehl, Ch. Engr.; Geo. Rosina, Gen. Supt.; G. N. Bruggner, P. A.	Seneca St.

DEFIANCE, DEFIANCE COUNTY, OHIO

Class	Firm and Personnel	Address
D-GG	DEFIANCE PRESSED STEEL CO., THE. E. L. Seither, Pres.-G. M.; Henry Seither, V. Pres.; F. H. Seither, Secy.-Pur. Agt.; E. W. Hoffman, Treas.; E. L. Herbolzheimer, Gen. Supt.	
U	DEFIANCE SCREW MACHINE PRODUCTS CO., THE. Sidney Thompson, Pres.-Treas.; B. M. Schrag, V. Pres.; J. J. Sinn, Secy.	
D-EE	DEFIANCE WELDING CO., THE. H. D. Bokop, Pres.; F. A. Bokop, Secy.-Treas.	
U	K. & Z. AUTOMATIC SCREW CO., THE. C. W. Zeller, Pres.; L. J. Kahlo, V. Pres.-Gen. Mgr.-Fcty. Mgr.-P. A.; F. L. Davis, Secy.-Treas.; Karl Kahlo, Gen. Supt.	

DELAWARE, DELAWARE COUNTY, OHIO

C	COOK MOTOR CO., THE. W. C. Denison, Gen. Mgr.; H. V. Boley, Pur. Agt.; F. Oviatt, Engr.; G. V. Mathews, Supt.	
K-M	MAHER PIPE, TONG & WRENCH CO. John Schaaf, Pres.; C. C. Coynes, Secy.; W. E. Borden, Gen. Mgr.	

DELPHOS, ALLEN COUNTY, OHIO

SS	AMERICAN ROAD MCHY. CO., THE. Information withheld.	
QQ	DELPHOS MFG. CO., THE. O. T. Rose, Pres.-Treas.; A. S. Perkins, Secy.	
VV	RAPID BOTTLE WASHER CO., THE. Walt Parmenter, Pres. (Lima, O.); H. Beckman, Secy.-Treas.	

DELTA, FULTON COUNTY, OHIO

U	DELTA SCREW MCH. PRODUCTS CO. L. A. Alexander, Pres.; H. E. Reed, Gen. Mgr.	
---	---	--

DENNISON, TUSCARAWAS COUNTY, OHIO

DD	DENNISON FDRY. & MACH. CO., THE. R. Foutz, Supt. PENNSYLVANIA R. R. SHOPS. H. B. Chaffin, Ch. Supt.	
----	--	--

DESHLER, HENRY COUNTY, OHIO

H-X-DD	DESHLER FDRY. & MACH. WKS. A. A. Suber, Prop.-G. M.-P. A.; John Suber, Fcty. Mgr.-Supt.	
D-GG-QQ	DESHLER MAIL BOX COMPANY, THE. S. A. Jones, Pres.-Fcty. Mgr.; N. D. Scott, V. Pres.; F. M. Armstrong, Secy.-Treas.-P. A.; C. Burk, Gen. Supt.	
B-VV	DESHLER MFG. COMBANY. Information withheld.	

DOVER, TUSCARAWAS COUNTY, OHIO

G-JJ	AM. SHEET & TIN PLATE CO., THE (Main Office Pittsburgh, Pa.) W. H. Weichsel, Wks. Mgr.-Supt.; R. H. Williamson, Asst. Wks. Mgr.; Otto Wagner, M. M.	
B-L	BAINES ENGR. CO., THE. G. P. Koelliker, Pres.; H. C. Baines, V. P.; H. A. Tice, G. M.-T. P. A.	

DOVER, TUSCARAWAS COUNTY, OHIO

Class	Firm and Personnel	Address
R-K	DOVER MFG. CO., THE. Chas. T. Veal, Pres.; L. O. Haug, G. M.-S. P. A.; M. V. Veal, Treas.; Carl E. Reufley, Wks. Mgr.; W. A. Braun, Ch. Engr.; Chas. Maurer, M. M.	
G-JJ	GREER STEEL CO. H. C. Greer, Pres.; L. N. Douglas, Secty.; H. C. Cappel, Treas.-P. A.; C. W. Carman, Supt.	
G	HANNA FURNACE CO., THE.....	(See Cleveland)
R	INVINCIBLE VACUUM CLEANER CO., THE. E. A. Nesbit, Pres.-G. M.; Edw. Sloan, Secty.-P. A.; C. E. Harjer, Supt.	
H-X-DD	PENN MOLD & MACH. CO., THE.....	Ft. 3rd St.
G-JJ-QQ	REEVES MFG. CO., THE..... H. C. Greer, Pres.; A. H. Reeves, V. P.-Supt.; A. J. Krantz, T. G. M.; Jos. A. Krantz, Secy.-P. A.	137 E. Iron Ave.
DD-H-X	WAGNER BROS. Chas. Wagner, Prop. Supt.	

DOYLESTOWN, WAYNE COUNTY, OHIO

D	DOYLESTOWN ALUMINUM WARE CO., THE. J. P. Hartel, Pres.; J. B. Meech, Secy.-Gen. Mgr.-P. A.; Thomas Lozier, Supt.	
---	---	--

EAST LIVERPOOL (COLUMBIANA COUNTY)

DD	BIRCH E. E. & SON,.....	(Chester, W. Va. Plant.)
B	BUCHER-SMITH CO., THE..... Thos. Timothy, Pres.; W. W. Ward, V. P.; J. W. Manor, Secty.; Jas. R. Meek, T. G.-Mgr.; J. E. Cornell, Supt.	(Wks. Chester, W. Va.)
B-DD	CAIN MACH. CO., THE..... Frank Cain, Pres.-P. A.; E. L. Cain, Supt.	674 Green Lane St.
EE	DIAMOND WELDING PLANT..... E. J. Weaver, Prop.	629 St. Clair Ave. (Op. Fire Station)
C-EE	EAST LIVERPOOL WELDING CO..... Wm. Scharf, Prop.	208 2nd Street.
YY	MCLEAN TIRE & RUBBER CO., THE. G. H. Stewart, Gen. Mgr.-P. A.; G. E. Whalon, Supt.	
G-JJ	NATIONAL DRAWN STEEL CO., THE. J. C. Kelly, Pres.-Supt.; Patrick McNicol, V. P.; W. H. Vodrey, S. T.-P. A.	
DD-B	PATTERSON FDRY. & MCH. CO., THE..... B. C. Simms, Pres.; R. L. Cawood, G. M.-P. A.; J. S. Scott, Ch. Engr.; J. E. Boyd, Supt.; Chas. Clark, Asst. Supt.	(Lower Plant)
DD-B	PATTERSON FDRY. & MCH. CO., THE..... B. C. Simms, Pres.; R. L. Cawood, G. M.-P. A.; Carl L. Ervin, Supt.; J. S. Scott, Ch. Engr.	(Upper Plant—Main).
R-XX	THOMAS, R. & SONS CO., THE..... L. M. Thomas, Pres.; G. R. Thomas, V. P.-Asst. G. M.; H. R. Holmes, G. M.; Lawrence Thomas, Treas.-P. A.; R. H. Marvin, El. Engr.; H. M. Brown, Cerm. Engr.; B. Kinney, Supt.; G. E. Eckert, Mgr. Pub.; Ed. Kaufman, Shop Foreman; E. M. Bucher, C. Draft.	7th Street

EAST PALESTINE, COLUMBIANA COUNTY, OHIO

YY	McGRAW TIRE & RUBBER CO., THE. C. H. Wheeler, G. M.-Supt.; Jas. Morgan, P. A.; G. D. Agnew, P. A.; E. W. Evans, Engr.	
----	--	--

EATON, PREBLE COUNTY, OHIO

E	WASHINGTON MOTOR CO., THE. A. H. Christman, Pres.; E. C. Wysong, V. Pres.; Fcy.-Mgr.-Gen. Supt.; John Voge, Secy.; O. M. Shipley, Treas.-Gen. Mgr.; Pur. Agt.; R. E. Berg, Ch. Engr.	
---	--	--

Who?

Est. 1906

HIGH CLASS EMPLOYMENT SERVICE

INTERSTATE BUSINESS EXCHANGE

MAIN 3629 658 ROSE BUILDING CLEVELAND

FOR

Executives, Engineers,
Draftsmen, Salesmen,
Office Men and Women

ELMORE, OTTAWA COUNTY, OHIO

Class	Firm and Personnel	Address
SS	MULTIPLEX CONCRETE MCHY. CO., THE. Information withheld.	

ELYRIA, LORAIN COUNTY, OHIO

G	AMERICAN CRUCIBLE PRO.CO., THE -----	Cor. West St. and R. R. Ave.
	A. C. Ryan, Pres.; A. H. Babcock, V. P.; Jno. G. Dorn, V. P.; F. M. Williams, Secty.-G. M.-Ch. Engr.; G. L. Smith, P. A.	
D	COLSON COMPANY, THE -----	Pine & Cedar Streets.
	F. W. Colson, Pres.-G. M.; John Murbach, V. P.; H. W. Ingersoll, Secty.; T. N. Cook, Treas.; S. T. Gilmore, P. A.; M. E. Roe, Fcty. Mgr.	
G-JJ	COLUMBIA STEEL CO., THE. -----	
	C. D. Smith, Pres.; C. E. Lozier, V. P.-G. M.; E. J. Scott, Secty.; W. L. Smith, Treas.; P. T. Wharton, Ch. Engr.; J. H. McElhinney, Fcty. Mgr.; Oscar Olson, Gen. Supt.; W. C. Fowls, P. A.	
H-X	DUPLEX MFG. & FDRY. CO. -----	398 West Avenue
	F. A. Merchell, Pres.-Treas.; H. T. Pleinis, V. P.; W. H. Hyde, Secty.-Pur. Agt.; H. D. Mattison, Mgr.	
H-X	ELECTRO ALLOYS CO. -----	Taylor & Abbey Rd.
	A. L. Garford, Pres.; J. B. Thomas, Treas.-Pur. Agt.; Heman Ely, Jr., Sales Mgr.; O. L. Larson, Sales Rep.	
BB-I-PP	ELYRIA BELTING & MCHRY. CO., THE -----	Cor. William & Buckeye.
	Alex Altfield, Pres.-Treas.; Otis C. Altfield, V. P.; D. S. Altfield, Secy.	
D	ELYRIA ENAMELED PRO. CO., THE. -----	
	H. S. Calvert, Pres.; W. E. Gray, V. P.; L. B. Walters, Treas.; G. H. Tyler, P. A.; R. F. Goecke, Gen. Supt.	
H-X	ELYRIA FDRY. CO., THE -----	Filbert St.
	A. C. Brown, Pres.; R. G. Clapp, Gen. Mgr.; W. E. Davies, Asst. Secy.-Treas.-P. A.; W. F. Gollman, Asst. Gen. Mgr.; J. Bridgeland, Supt.	
G-JJ-LL	ELYRIA IRON & STEEL CO., THE (See Clevelnd, O.)-----	Mussey Rd.
	H. B. Wick, Pres.; M. A. Wick, V. P.; G. F. White, Sec.-Treas.(Cleveland, O.)	
DD-X-II	ELYRIA MACHINE COMPANY -----	W. River St.
	C. M. Probasco, Pres.-G. M.; J. L. Birdsall, Treas.-P. A.; R. H. Williamson, Gen. Supt.; J. D. Neikirk, Gen. Foreman.	
H-X	GARFORD FDRYS. CO., THE -----	Taylor St.
	A. L. Garford, Pres.; S. W. Henson, G. M.-P. A.	
R	GEN'L PHONOGRAPH CO., THE -----	Taylor St.
	A. G. Beam, Pres.; L. E. Bonsieur, G. M.; A. L. Patrick, Treas.; C. D. Rawson, P. A.; George Kunkle, Ch. Engr.	
E-M	H. & T. SPRING CO., THE. -----	
	W. B. Timms, Pres.-G. M.; H. E. Hall, V. P.; O. C. Wagner, Sec.-Treas.; F. Funk, Fcty. Mgr.	
AAA	HARSHAW, FULLER & GOODWIN CO., THE. -----	
	A. L. Stark, Pres.-G. M.; C. H. Price, P. A.	
YY	I. T. S. RUBBER CO., THE. -----	
	J. G. Teifford, Pres.; A. G. Smith, V. P.; G. H. Lewis, Secty.; C. H. Ingwet, Treas.	
H-L	INDUSTRIAL AIR ENGR. CO. -----	W. River St.
	George C. Fatscher, G. M.-P. A.	
D	MARTELL PACKINGS CO., THE -----	33 E. Bridge St.
	E. W. Beidler, Pres.-Sales Mgr.; W. H. Hill, V. P.; T. F. Beidler, Sec.-Treas.; D. S. Cole, G. M.-Ch. Engr.-P. A.; A. H. Krugman, Gen. Supt.	
U	PERRY-FAY CO., THE -----	Perry Court
	R. D. Perry, Pres.-G. M.-P. A.; E. F. Allen, V. P.; R. B. Fay, Secty.-Sales Mgr.; A. B. Taylor, Treas.; R. D. Perry, Jr., Fcty. Mgr.-Asst. P. A.; C. W. Becker, Gen. Supt.	
D	SUPERIOR METAL PROD. CO., THE -----	Bond & Adams Sts.
	H. A. Jackson, Pres.-G. M.-P. A.; Hugh B. Wick, V. P.; A. E. Adams, S.-T.-Asst. P. A.; C. M. Hard, Ch. Engr.; H. C. Eckenrod, Fcty. Mgr.-Supt.; H. J. Thomas, Prod. Mgr.	
UU	TROXEL MFG. CO., THE -----	Troxel Bldg.
	D. S. Troxel, Pres.; J. N. Brandt, V. P.-G. M.-P. A.; R. N. Faulhaber, Gen. Supt.;	

ELYRIA, LORAIN COUNTY, OHIO

Class	Firm and Personnel	Address
P-CC	UNIVERSAL CRANE CO., THE. F. A. Smythe, Pres.; F. A. Peck, V. P.-G. M.; D. L. Johnson, Sec.-Treas.; E. G. Deucher, Ch. Engr.; Q. J. Winsor, P. A.; G. F. Mahon, Fcty. Mgr.-Supt.; G. W. Pope, Sales Mgr.	
YY	WAUKON RUBBER CO. W. R. Huntington, Pres.; A. T. Glew, V. P.; J. W. Dewhurst, Secty.-P. A.-Wks. Mgr. J. A. Ebert, Treas.	
U	WESTERN AUTO MACH. SCREW CO., THE. Philip B. Gale, Pres.; J. F. Doyle, V. P.-G. M.; H. P. Bembow, Sec.-Treas.-P. A.; J. C. Wilkie, Ch. Engr.; W. T. Collier, Fcty. Mgr.; F. H. Bryant, Asst. P. A.; B. C. Franklin, Sales Mgr.	Lake & Foster Aves.
YY	WORTHINGTON BALL CO. Geo. C. Worthington, Pres.-G. M.; A. L. Patrick, V. P.; L. B. Fauver, Secty.; W. Cunningham, Treas.-P. A.	106 Maple St.

EUCLID, CUYAHOGA COUNTY, OHIO

BB-N-ZZ	ANCHOR POST IRON WKS. C. L. Moulder, Fcty. Mgr.; C. A. Bishop, Asst. P. A.	St. Clair Ave.
P-R-CC	ARMINGTON ENGR. CO., THE. S. F. Armington, Pres.-G. M.-P. A.-Ch. Engr.; J. K. Greer, Supt.	Chardon Rd.
ZZ	AUSTIN FABRICATING PLANT. J. E. Ferguson, Pres.-G. M.; M. R. Nason, Ch. Engr.; F. E. Graham, Supt.; G. Lepold, P. A.	
WW	BLISS, E. W. CO. R. Grant, Gen. Mgr.; A. E. Konkle, Pur. Agt.	Bliss Rd.
P-CC	EUCLID CRANE & HOIST CO., THE. G. A. Armington, Pres.-G. M.; W. White, Secy.; D. L. Brain, Ch. Engr.; A. P. Armington, Supt.; E. C. Haker, P. A.	
AAA	LENNOX CHEMICAL CO. E. S. Griffith, Pres.-G. M.; E. T. Sargent, Secty.; A. O. Scherer, Supt.; J. H. Champ, Treas.; W. A. Haak, P. A.	

FAIRPORT HARBOR, LAKE COUNTY, OHIO

AAA	DIAMOND ALKALI CO., THE. T. R. Evans, Pres.; (Pittsburg, Pa.); C. N. Windecker, V. P.-G. M.-Fcty. Mgr.; H. B. Speasmaker, P. A.	(Main Office, Pittsburg, Pa.)
-----	--	-------------------------------

FINDLAY, HANCOCK COUNTY, OHIO

E	ADAMS AXLE CO., THE. G. M. Carter, Pres.-Gen. Mgr.; B. F. Urschel, V. Pres.; J. R. Batton, Secy.-Treas.; R. H. Rosenberg, Fcty. & Prod. Mgr.; A. G. Slatcher, Ch. Engr.; P. S. Scott, Gen. Supt.; H. O. Clapp, Pur. Agt.	West Main Cross
	AMERICAN MASK MFG. CO. Oscar Kirsten, Pres.-Gen. Mgr.; J. Eoff, Secy.-Treas.	W. Main Cross St.
B-SS	BUCKEYE TRACTION DITCHER CO. W. F. Hosler, Pres.; C. L. Casterline, V. P.; C. D. Hayward, Sec.-Treas.; Earl Mollott, Asst. Secy.; C. L. George, Ch. Engr.; J. J. Mahony, P. A.; W. F. O'Neil, Prod. Mgr.; C. F. Yocum, Supt.; D. C. Royce, Sales Mgr.; Carl Lee, Asst. Sales.	
S	DIFFERENTIAL STEEL CAR CO. H. F. Flowers, Pres.-Treas.-Gen. Mgr.; Shelly Hughes, V. Pres.; Harry T. Thompson, Secy.; W. D. McAdams, Fcty. Mgr.; S. F. Keener, Ch. Engr.-Pur. Agt.	
K	EAGLE VALVE CUP COMPANY. E. D. Bishop, Gen. Mgr.	rear 518 S. Main St.

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

FINDLAY, HANCOCK COUNTY, OHIO

Class	Firm and Personnel	Address
H-X-DD	FINDLAY ENGR. & MFG. CO. J. L. Alexander, Pres.-Gen. Mgr.; L. E. Fischer, Secy.; R. G. Sheldon, Treas.;	461 E. Main Cross St.
DD	HOPPENBERG MACHINE COMPANY E. M. Hoppenberg, Gen. Mgr.-Supt.	Meeks Ave.
V	INDIANA SILO & TRACTOR CO., THE L. B. Slick, Gen. Supt.	
H-X-DD	MODEL FOUNDRY & MACHINE CO., THE J. J. Kwis, Pres.-Gen. Mgr.-Fcty. Mgr.; Paul Reissig, V. Pres.; A. J. Hosler, Secy.-Treas.-P. A.	Putnam St.
CC	TREECE, W. E. & COMPANY W. C. Treece, Gen. Mgr.	828 N. Main St.
E	VARLEY MFG. CO., THE Fred Oswald, Pres.-Gen. Mgr.; Carl Hamprecht, V. Pres.; Fred Love, Treas.	S. Main St.
DD	WENT, C. H. C. H. Went, Prop.	E. Main Cross St.

FOREST, HARDIN COUNTY, OHIO

QQ	DICKELMAN MFG. CO., THE. Information withheld.
----	---

FOSTORIA, SENECA COUNTY, OHIO

M-DD-E	ATLAS MFG. CO., THE. James McDonald, Gen. Mgr.	
S-R	AMERICAN RAILWAY SIGNAL CO., THE. Clarence Brown, Gen. Mgr.	
EE-DD	BRADLEY, F. J. F. J. Bradley, Prop.	
D-E	FOSTORIA PRESSED STEEL CO., THE. C. D. Pifer, Pres.-Gen. Mgr.; H. Rothrock, V. Pres.; E. C. Wolfe, Secy.; R. J. Carter, Treas.; C. A. Dix, Gen. Supt.; E. L. Frase, Pur. Agt.	
DD	FOSTORIA MACHINE & TOOL CO., THE. C. O. Miniger, Pres.; H. C. Tillotson, V. Pres.; H. E. Adams, Secy.; W. G. Nagel, Treas.; O. W. Gutknecht, Gen. Mgr.; A. R. Thornton, Pur. Agt.	
U	FOSTORIA SCREW CO., THE. M. M. Carr, Pres.; Ph. Apfel, V. Pres.; E. R. Pillars, Secy.-Treas.-Gen. Mgr.; F. H. Oram, Fcty. Mgr.-Prod. Mgr.; T. J. Massey, Jr., Gen. Supt.; L. W. Karg, P. A.	Err St.
DD-E	LEESEBERG MACHINE & MFG. CO., THE. H. C. Leeseberg, Pres.-Gen. Mgr.-Fcty. Mgr.; E. L. Barkley, V. Pres.; A. Emerine, Jr., Secy.; A. Wernick, Treas.	319 Main St.
K	S-C REGULATOR MFG. CO., THE. M. M. Carr, Pres.; W. J. Wagner, V. P.; J. M. Barrett, Secty.-G. M.-P. A.; G. A. Snyder, Treas.; Chas. Ackerman, Fcty. Mgr.	
E	SENECA MOTOR CAR CO., THE. Charles Ash, Pres.; Herbert Ash, V. P.; Ira Cadwallader, Sec.-Treas.-Sales; I. L. Cleveland, Ch. Engr.; E. A. Kurtz, P. A.	Poplar St.
N	SENECA WIRE & MFG. CO., THE. L. E. Kinn, Pres.-Gen. Mgr.; J. A. Wonderly, V. Pres.; A. J. Welly, Secy.; Ira Cadwallader, Treas.; Wm. Marley, Gen. Supt.; R. J. Baumstark, Pur. Agt.	Vine St.

FRANKLIN, WARREN COUNTY, OHIO

B-DD	BEVIS, R. EARL. R. Earl Bevis, Prop.
R	V. & D. ELECTRIC CO. Information withheld.

FREDERICKTOWN, KNOX COUNTY, OHIO

Class	Firm and Personnel	Address
H-X-B-TT	FOOTE, J. B. FOUNDRY CO., THE. Information withheld.	
VV	ZEIG, F. B. MFG. CO., THE. Information withheld.	

FREEPORT, HARRISON COUNTY, OHIO

H-X	FREEPORT FOUNDRY CO., THE. Information withheld.
-----	---

FREMONT, SANDUSKY COUNTY, OHIO

DD-II	CARBO TOOL & DIE CO. Information withheld.	
MM	CHRISTY CO., THE. R. J. Christy, Pres.; C. J. Christy, Secy.	
D-MM	CRESCENT MFG. CO. Information withheld.	
B-T-DD-II	DETROIT MODEL MACHINE WKS.....	931 Napoleon St.
MM	FLEXIBLE FILE CO. Dr. George Zimmerman, Prop.	
E	FREMONT CONSOLIDATED MOTORS CO., THE..... H. M. Hackett, Pres.-Gen. Mgr.; Prof. B. J. Bailey, V. Pres.; F. H. Snyder, Secy.-P. A.; A. C. Rogers, Asst. Treas.-Fcty. Mgr.; Willis M. Bowlus, Ch. Engr.; O. E. Coe, M. M.	Box "H"
H-X	FREMONT FOUNDRY CO., THE. Information withheld.	
GGG	FREMONT STOVE CO., THE. Information withheld.	
DD-II	FREMONT TOOL & DIE CO..... Louis A. Mayle, Prop.-Supt.	434-36 Wood St.
MM	HENKEL CLAUSS CO., THE. Paul E. Schaaf, Pres.; Harry Zimmerman, Secy.-Treas.; F. W. O'Farrell, P. A.	
M	HERBRAND CO., THE. Chas. Thompson, Pres.; C. F. Thompson, V. Pres.-Gen. Mgr.; C. A. Ream, S.-T.-Fcty. Mgr.; R. H. Frantz, Prod. Mgr.; R. H. Tyler, Gen. Supt.; Jos. Karlovetz, M. M.; F. D. Betts, P. A.	
MM	HOLLINGER CUTLERY CO., THE. J. L. Reineck, Pres.; E. A. Hollinger, Secy.; A. L. Hollinger, Treas.	
H-X	HOTZ FOUNDRY & MFG. CO., THE. C. Hotz, Pres.; T. M. Reardon, Secy.; C. G. Hotz, Treas.	
MM	JACKSON SHEAR CO., THE..... A. H. Jackson, Pres.-Treas.; T. A. Morrow, V. P.; B. H. Swift, Secty.-G. M.; Louis Sherck, Ch. Engr.-M. M.; H. R. Millious, P. A.; Chas. Jeremias, Gen. Supt.; G. H. Brinkerhoff, Prod. Mgr.	1500 W. State Street.
B	NATIONAL CARBON CO..... Harry J. Lees, Ch. Engr. H. J. Wood, Wks. Pur. Agt.	(Fremont Wks.)
MM	UNSINGER RAZOR BLADE CO., THE. Paul E. Schaaf, Pres.; Harry Zimmerman, Secy.-Treas.; Peter Unsinger, Supt.	

GALENA, DELAWARE COUNTY, OHIO

RR	HUGHES & SMYTHE. Information withheld.
----	---

GALION, CRAWFORD COUNTY, OHIO

D	AMERICAN VAULT CO. C. F. Unckrich, Supt
---	--

GALION, CRAWFORD COUNTY, OHIO

Class	Firm and Personnel	Address
E-D-T	DETWEILER CO. L. M. Liggett, Gen. Mgr.-Pur. Agt.; H. Quireck, Supt.	
TT	FREESE, E. M. & COMPANY. E. M. Freese, Gen. Mgr.	
C-P-Z	GALION IRON WKS. CO., THE. D. C. Boyd, Pres.; G. L. Stiedel, V. Pres.; F. W. Faber, Secy. & Treas.; F. E. Arndt, Chief Engr. -Supt.; F. W. Flowers, Pur. Agt.	
D	GALION METALLIC GRAVE VAULT CO. A. A. Arnold, Supt.	
D	NATIONAL GRAVE VAULT CO. T. H. Clark, Supt.; E. H. Fisher, V. Pres.	
D-R	NORTH ELECTRIC CO., THE. W. M. Carpenter, Pres.; K. B. Miller, V. Pres.; F. R. McBerty, Chief Engr.; W. Butz, Pur. Agt.; C. F. Burt, Secy.-Treas.	

GALLIPOLIS, GALLIA COUNTY, OHIO

C	ACME BOILER WORKS. Information withheld.	
GGG	TREASURE STOVE CO., THE2nd & Grape Sts. F. M. Bovie, Pres.-G. M.; Chas. F. Stockhoff, V. P.; Geo. F. Bovie, S.-T.-Fcty. Mgr.-P. A.;	

GARFIELD, MAHONING COUNTY, OHIO

E	MACDONALD STEAM AUTOMOTIVE CORP. Duncan Macdonald, Pres.-Pur. Agt.; F. N. Macdonald, V. Pres.-Secy.; E. M. Macdonald, Treas.; J. Gonda, Ch. Engr.; A. Coy, Gen. Supt.	
---	--	--

GARRETTSVILLE, PORTAGE COUNTY, OHIO

DD-II	AMY MACHINE COMPANY. Information withheld.	
YY	McWADE TIRE & RUBBER CO., THE. J. H. McWade, Pres.; S. H. Bruce, V. P.-G. M.-Fcty. Mgr.; H. G. Vincent, S.-T.-Sales; S. Wildman, Ch. Engr.; H. B. Bixler, Prod. Mgr.	

GENEVA, ASHTABULA COUNTY, OHIO

D-RR	AMERICAN FORK & HOE CO., THE(See Cleveland, Ohio)	
K	CHAMPION HDWE CO., THE. C. Chamberlain, Pres.; W. S. Harris, V. P.; Nelson Hasenflue, S.-T.-G. M.; C. A. Stanclift, Ch. Engr.-M. M.; G. W. Wellman, Fcty. Mgr. Prod.; T. J. Miller, P. A.; Nelson Hasenflue, Sales Mgr.	
D	GENEVA METAL WHEEL CO., THE8 Factory Row. A. W. Chamberlin, Pres.; A. J. Ford, V. P.; G. C. Webster, Secty.-Fcty & Prod. Mgr.; A. M. Ford, Treas.-Sales Mgr.; O. L. Spring, Ch. Engr.; R. E. Sawyer, P. A.; H. A. Carter, Sales Engr.	
K	POTTER MFG. CO., THE. Arthur Potter, Prop.-G. M.-P. A.	
E	YOUNG, H. B. MOTOR TRUCK CO., THEN. Eagle & N. Y. C. R. R. H. B. Young, Pres.-Gen. Mgr.; B. L. Van Woert, V. Pres.; O. L. Travis, Secy.; H. W. Graham, Treas.; R. A. Barrett, Fcty. Mgr.-Ch. Engr.-Pur. Agt.; Louis Marx, Gen. Supt.	

GIRARD, TRUMBULL COUNTY, OHIO

LL	BYERS, A. M. CO. S. K. Hine, Gen. Mgr.	
----	--	--

GIRARD, TRUMBULL COUNTY, OHIO		
Class	Firm and Personnel	Address
UU	OHIO LEATHER CO. J. L. Dennett, Secy.-Treas.; V. G. Lombard, Gen. Mgr.	
GREENFIELD, HIGHLAND COUNTY, OHIO		
D-QQ	ARNOTT, E. L. E. L. Arnott, Prop.	
D-QQ	HARPS, J. A. MFG. CO. J. A. Harps, Pres. T. G. M.-P. A.; G. H. Morehouse, Secty.; E. F. Caldwell, Fcty.-Mgr.-Engr.	
	WADDELL CO., THE. John M. Waddell, Pres.-G. M.; Dean T. Waddell, V. Pres.-Pur. Agt.; Lew P. Waddell, Secy.-Fcty. Mgr.; Neal P. Waddell, Treas.; Roy Duffield, Gen. Supt.	
GREENSPRING, SENECA COUNTY, OHIO		
DD	GALE, CHAS. E. Chas. E. Gale, Prop.	
GREENVILLE, DARKE COUNTY, OHIO		
GGG	BERKHEIMER & LAMMERS. Information withheld.	
V	FRANKLIN TRACTOR CO. Information withheld.	
SS	GREENVILLE MFG. CO., THE. Information withheld.	
HAMILTON, BUTLER COUNTY, OHIO		
DD-C	ADVANCE MANUFACTURING COMPANY..... Oscar N. Ritchie, Prop.	130 N. "B" St.
	AMERICAN CASTER COMPANY..... E. T. Malloy, Pres.; Hamar Hawthorne, V. Pres.; L. M. Schofield, Secy.	Central & Washington.
H-X-GGG	AMERICAN FDY. & MCH. CO., THE..... A. Ballinger, Pres.-Treas.; A. Jacobs, Secy.-Gen. Mgr.	
S	AMERICAN FROG & SWITCH CO., THE. E. C. Hooven, Pres.; Don Hooven, Secy.-Gen. Mgr.; F. W. Holcomb, Ch. Engr.; C. Fairfield, Gen. Supt.; W. H. Rabbe, Pur. Agt.	
C-B	BENNINGHOFEN, C. & SONS..... C. Benninghofen, Pres.; Paul Benninghofen, V. Pres.; Mark Benninghofen, Secy.-G. M.; C. Leichter, Supt.	Penna. R. R. & Miami Canal
B	BLACK & CLAWSON CO., THE..... F. C. Trowbridge, Pres.; A. C. Shinkle, V. Pres.; H. L. Kutter, Secy.; H. R. Dilg, Treas.; F. Schreiber, Gen. Supt.; A. M. Brate, Pur. Agt.	Second and Vine Sts.
H-X	CENTRAL FOUNDRY CO., THE..... A. W. Margedant, Pres.-Treas.; C. E. Margedant, V. Pres.-Gen. Mgr.; W. C. Margedant, Secy.; A. J. Quinn, Gen. Supt.	Mill Road
TT-L-B	CERAMIC MACHINERY CO., THE..... F. E. Goldsmith, Pres.; A. H. Walburg, V. Pres.; Frank B. Yingling, Secy.-Treas.	Middletown Pike.
A-B	COLUMBIA MACHINE TOOL CO., THE..... F. E. Goldsmith, Pres.; E. S. Rich, V. Pres.-Pur. Agt.; F. B. Yingling, Secy.-Treas.-Gen. Mgr.; W. E. Birdsong, Gen. Supt.	Fairgrove & Wiley Avenues.
GGG-QQ	DEUSCHER, H. P. CO., THE..... Gus Schwenn, Pres.-Treas.; Otto Ehrenschenver, V. Pres.; Wm. H. Stephan, Secy.	7th & Hanover St.
R	DORAN BROTHERS COMPANY..... J. W. Doran, C. W. Doran, Props.	North "B" St.

Main Office and Showroom: 717 LAKESIDE AVE. N.W.

HAMILTON, BUTLER COUNTY, OHIO

Class	Firm and Personnel	Address
F	DUEMER, LOUIS PATTERN WKS. Louis Duemer, Sr.; Karl Duemer; Louis Duemer, Jr.; Walter Duemer.	1356 Central Avenue
GGG-R	ESTATE STOVE CO., THE Felix Kahn, Pres.; Laxard Kahn, V. Pres.; Bertrand B. Kahn, Secy.-Fcty. Mgr.; David F. Kahn, Treas.-Gen. Mgr.; Harry Hodgson, Ch. Engr.; Harry Dolf, Prod. Mgr. David Black, Gen. Supt; James Fath, Pur. Agt.	East Ave.
D	FISCHER CAN CO., THE Chas. Fischer, Pres.-Gen. Mgr.; Carl H. Albrecht, Secy.-Treas.	Central & Kruger Avenue.
K-E	FISHER LOCK CO., THE. Information withheld.	
V	FORD, HENRY & SON O. A. Anderson, Gen. Mgr.	N. End of Fifth Street
E	FORD MOTOR CO., THE O. A. Anderson, Gen. Mgr.	North End of 5th Street
VV	FREIBERG-SIMRALL CO., THE Julius W. Freiberg, Pres.; John C. Hermann, Secy.; C. W. Simrall, Treas.; W. N. Bennett, Gen. Mgr.-Fcty. Mgr.-Pur. Agt.; L. F. Utz, Gen. Supt.; E. L. Rodgers, Asst. Pur. Agt.	126 N. "B" St.
DD	GENERAL REPAIR & MACHINE SHOP Frank J. B. Leisner, Prop.	4th & High St.
F	GETZ, GEO. P. Geo. P. Getz, Prop.	
III	HAMILTON AUTOGRAPHIC REGISTER COMPANY P. Benninghofen, Pres.-Secy.-Treas.; E. S. Rump, V. Pres.-Gen. Mgr.; R. B. Sharp, Fcty. Mgr.-Pur. Agt.	802 Symmes Avenue.
H-X	HAMILTON BRASS & ALUMINUM CASTINGS CO., THE Chas. W. Cork, Pres.; Chas. E. Loehler, Secy.-Treas.	8th & Chestnut
	HAMILTON CASTER & MFG. CO., THE John A. Weigle, Pres.-Treas.; A. Korgman, V. Pres.; Herbert E. Weigle, Secy.; Geo. Kallerer, Supt.	1637 South Dixie Highway
H-X-K	HAMILTON COPPER & BRASS WKS. C. L. Duemer, Gen. Mgr.	1767 Dixie Highway
H-X	HAMILTON FDY. & MCH. CO., THE G. A. Rentschler, Pres.; G. S. Rentschler, V. Pres.-Gen. Mgr.; H. A. Rentschler, Secy.-Treas.	East Hamilton
G	HAMILTON FURNACE CO., THE John A. Savage, Pres.; Jos. F. Savage, Gen. Mgr.	Coke Otto
A-B	HAMILTON MCH. TOOL CO., THE Chas. F. Hilker, Pres.-Gen. Mgr.; M. L. Milligan, V. Pres.; J. K. Hilker, Secy.-Treas.; R. Asberry, Gen. Supt.	Symmes Ave.
D-N-QQ	HAMILTON METAL PRODUCTS CO., THE Louis Piker, Pres.-Treas.-Gen. Mgr.-Pur. Agt.; Jos. H. Schlichter, V. Pres.-Fcty. Mgr.; Ph. N. Piker, Secy.-Asst. Pur. Agt.	206 N. "B" St.
F	HAMILTON PATTERN WKS. G. A. Mattle, Prop.	13th & Maple Avenue
EE-C	HAMILTON WELDING & MFG. CO., THE R. H. Kemp, Gen. Mgr.	121 N. "B" St.
	HERRING-HALL-MARVIN SAFE CO., THE W. F. Forepaugh, Pres.; S. S. Evans, V. Pres.; F. A. Marsellus, Secy.; J. M. Swanson, Treas.; E. E. Watson, Gen. Mgr.; H. E. Henneberger, Pur. Agt.	Grand Blvd.
B	HOOVEN AUTOMATIC TYPEWRITER CORP. C. E. Hooven, Pres.-Gen. Mgr.; J. H. Pillings, Treas.; K. D. Evans, Gen. Supt.	Central & Kruger
C	HOOVEN, OWENS, RENTSCHLER CO. G. A. Rentschler, Pres.-Secy.-Treas.; W. B. Mayo, V. Pres.; G. I. Theile, Ch. Engr. G. A. Hepke, Sales Mgr.; G. R. Shields, Prod. Mgr.; Ed. Brinker, Gen. Supt.; W. Hargitt, Pur. Agt.; Jos. Niehaus, Asst. Pur. Agt.	
H-X	INDUSTRIAL CASTING CO., THE Information withheld.	Coke Otto
H-X	IRON CITY FOUNDRY CO., THE A. D. Stucky, Pres.; C. E. Freeman, V. Pres.; F. G. Traher, Secy.-Treas.	

HAMILTON, BUTLER COUNTY, OHIO		
Class	Firm and Personnel	Address
BB-I-K-PP	KINSEY, E. A. CO., THE Information withheld.	N. 2nd St. (Main Office Cincinnati, O.)
III	KRAUTH & BENNINGHOFFEN. Information withheld.	
A-B	LIBERTY MCH. TOOL CO., THE P. Benninghofen, Pres.; A. R. McCann, V. Pres.-Gen. Mgr.; B. R. Milliken, Secy.-Treas.; C. Johannesmeyer, Ch. Engr.; A. Iutzwig, Gen. Supt.; J. Milliken, Pur. Agt.	Lindenwald
D-QQ	LIBERTY SHEET METAL CO. M. Fogel, Prop.; Chas. Blumenthal, Prop.	350 Hanover St.
A-B-WW	LONG & ALSTATTER CO., THE W. N. Rumley, Pres.; F. P. Long, V. Pres.-Gen. Mgr.; L. A. Pfau, Secy.; R. E. Clark, Treas.; P. G. Pater, Ch. Engr.; A. J. Koehler, Prod. Mgr.; D. P. Long, Gen. Supt.; W. W. Hoffmeister, Pur. Agt.	4th & High Sts.
ZZ	MEYERS, FRED J. MFG. CO., THE. Geo. C. Bramlage, Pres.-Pur. Agt.; John A. Wulftange, V. Pres.-Prod. Mgr.; Fred L. Meyers, Secy.; Jos. F. Wulftange, Treas.	
E	MIAMI BODY WKS. CO., THE Guy Harrod, Pres. Secty. G. M.; R. O. Smith, V. P.; R. E. Smith, Treas.-Ch. Engr. Fcty. Mgr. P. A.; Wm. Heitkamp, Gen. Supt.	318 N. "B" St.
F	MIAMI PATTERN WKS. Frank Bov, Prop.	110 N. Monument Ave.
EE	MIAMI WELDING COMPANY. Wilbur R. Black, Prop.	
B-DD-II	MIDWEST TOOL & ENGR. CO., THE Oscar Koogler, Pres.; Albert T. Engdahl, V. Pres.; Chas. Cammerer, Secy.-Treas.	North "B" St.
	MOSLER SAFE CO., THE G. M. Goldsmith, V. Pres.; J. G. Donaldson, Secy.; E. C. Hyman, Treas.; G. C. Bartels, Gen. Supt.; G. Bonnell, Pur. Agt.	Grand Blvd.
A-B	NILES TOOL WORKS CO., THE Jas. K. Cullen, Pres.; C. L. Cornell, V. Pres.; J. B. Cornell, Treas.; James Blair, Secy.-Pur. Agt.; Geo. C. Griest, Gen. Mgr.; J. J. Seybold, Fcty. Mgr.-Supt.; L. C. Cole, Ch. Engr.; Maurice Griest, Prod. Mgr.; E. M. Ladley, Asst. Pur. Agt.	545 North Third St.
	PHOENIX CASTER CO., THE G. A. Rentschler, Pres.-Gen. Mgr.	Middletown Pike
FF	SUPERIOR OXY-ACETYLENE MCH. CO., THE Claude E. Freeman, Pres.; Ethyl P. Weller, Secy.-Treas.	East High St.
GGG	WEEKS, H. G. MFG. CO. H. G. Weeks, Pres.; R. R. Asbury, G. M.-P. A.; Wm. Ringer, Gen. Supt.	Millville & Edgewood Avenues.
R	WENTE ELECTRIC COMPANY Leslie H. Wente, Pres.; Elsworth A. Wente, Secy.-Treas.	223 N. Fourth St.

HARRISON, HAMILTON COUNTY, OHIO

RR-H	CAMPBELL HAUSFELD CO., THE. Edw. B. Hausfeld, Pres.; A. . Campbell, V. Pres.; C. E. Haddock, Secy.-Gen. Mgr.; Jos. E. Hausfeld, Treas.; O. H. Luebbing, Fcty. Mgr.-Ch. Engr.; J. S. Armour, P. A.
------	---

HILLSBORO HIGHLAND COUNTY, OHIO

H-X-B-DD	BELL, C. S. CO., THE. Information withheld.
ZZ	GROSS-FEIBEL CO., THE. C. B. Gross, Pres.; W. L. Gross, Secty.-P. A.

HUBBARD, TRUMBULL COUNTY, OHIO

MAR-SLA MFG. CO., THE. H. R. Hooper, Pres.; D. C. Hamilton, V. P.; W. L. Kauffman, S.-T.-Ch. Engr.-P. A.; Val Smith, Gen. Supt.-Prod. Mgr.
--

HUBBARD, TRUMBULL COUNTY, OHIO

Class	Firm and Personnel	Address
D	POWELL PRESSED STEEL CO., THE. W. J. Powell, Pres.-G. M.; H. S. Wylde, V. P.-P. A.; E. J. Powell, Secty.-Ch. Engr.; W. S. Davis, Treas.; J. L. Doyle, Prod. Mgr.; W. W. Hancox, M. M.	

IRONDALE, JEFFERSON COUNTY, OHIO

XX	EAST OHIO SEWER PIPE CO. Wm. Banfield, Pres.; A. O. Houston, V. P.; F. W. Owesney, S.-T.-G. M.-Sales Mgr.; Geo. Butler, Fcty. Mgr.; John B. Kerr, Gen. Supt.; F. W. Edwards, Ch. Engr. A. Boehm, M. M.; Raymond Jacobs, Pur. Agt.	
----	---	--

IRONTON, LAWRENCE COUNTY, OHIO

DD	ADAMS, E. B. CO., THE. Information withheld.	
ZZ	BELFONT IRON WKS. CO., THE. S. G. Gilfillan, Pres.-G. M.; John Peebles, V. P.; J. R. Gilfillan, Secty.-Sales; C. W. Moulton, Treas.; L. W. Harmon, Ch. Engr.; I. A. Ryan, Gen. Supt.-P. A.; Bert Lawless, M. M.	
DD	BEVERLY, HARRY. Harry Beverly, Prop.	
H-X	DAYTON MALLEABLE IRON CO.(Br. of Dayton, O). Information withheld.	
C	IRONTON BOILER WKS. Patrick Meehan, Pres.; Paul Meehan, G. M.-P. A.; P. I. Meehan, Gen. Supt.	
C	IRONTON ENGINE CO., THE6th & Ashtabula Streets. E. B. Hetzel, Pres.; A. H. Mittendorf, V. P.; E. H. Allfree, Secty.-G. M.-P. A.; E. O. Marting, Treas.; W. R. Youmans, Ch. Engr.; J. Appleton, Sales Mgr.	
DD	IRONTON MACHINE SHOP CO. Information withheld.	
G-QQ-ZZ	IRONTON MFG. CO. Information withheld.	
A-K-H-X-DD WW	IRONTON PUNCH & SHEAR CO., THE107 N. Second St. T. M. Adams, Pres.-G. M.; F. C. Tomlinson, V. P.; J. G. Bates, S.-T.-P. A.-Fcty. Mgr.	
G	IRONTON STOVE & MFG. CO., THE1002 S. First Street. L. K. Cooper, Sec.-Treas.-P. A.	
G	MARTING IRON & STEEL CO., THE. W. G. Sharp, G. M.; Fred Zimmerman, Gen. Supt.	
N	STEEL & WIRE PRODUCTS CO.Br. Pittsburgh, Pa. Information withheld.	

IVORYDALE, HAMILTON COUNTY, OHIO

O	AMERICAN OIL TREATING & HARDENING CO., THE. Information withheld.	
	PROCTER & GAMBLE CO., THE. Information withheld.	

JACKSON, JACKSON COUNTY, OHIO

H-X-K	CROWN PIPE & FOUNDRY CO., THE. Lola Jones, Pres.; Dwight Jones, V. Pres.-Secy.-Treas.-Pur. Agt.; A. M. Davis, Gen. Mgr. P. M. Dressy, Gen. Supt.	
G	GLOBE IRON CO., THE. Information withheld.	
KK	GREENLEE BROS. & CO.Box 546 Jackson, O. (Wks. Rockford, Ill.) E. T. McPherson, Dist. Mgr.; E. M. Pritz, Asst. Dis. Mgr.	

JACKSON, JACKSON COUNTY, OHIO		
Class	Firm and Personnel	Address
G	JACKSON IRON & STEEL CO., THE. Simon Labold, Pres.; D. D. Davis, V. P.; John F. Morgan, S.-T.; J. S. Morgan, P. A.; Noah G. Spangler, G. M.; L. A. McCarty, M. M.	
G	WELLSTON IRON FURNACE CO., THE. S. E. Stephenson, Pres.; Joseph McGhee, Secty.; S. A. Sternberger, Treas.; F. A. Burgess, P. A.; J. G. Harding, Gen. Supt.; A. D. Wingate, Sales Mgr.	
JOHNSTOWN, LICKING COUNTY, OHIO		
NN	RUSLER, H. B. MFG. CO. W. A. Rusler, Prop.-Sales; F. G. Smith, Mgr.	
KENT, PORTAGE COUNTY, OHIO		
S	ERIE R. R. CAR REPAIR SHOPS, THE. W. W. Warner, Gen. Supt.; E. J. Williams, G. F.-Mch.	
A-B-SS-DD	KENT MACHINE CO., THE. A. B. Babbitt, Secty.-G. M.-P. A.; J. A. Rhodes, Sales Adv.- C. C. Soper, Ch. Engr.; A. D. Pitts, Supt.; G. H. Moon, P. A.	N. Water St.
U	LAMSON & SESSONS CO., THE. Roy Smith, V. P.-G. M.; J. W. Salter, Gen. Supt.; F. J. Dangler, Asst. Supt.; G. W. Hinds, P. A.; Harry De Lapotterie, Ch. Engr.	Falls Rivet Plant (Main Office Cleveland)
YY	MASON TIRE & RUBBER CO., THE. O. M. Mason, Pres.; J. H. Diehl, V. Pres.; W. A. Cluff, Secy.; D. M. Mason, Treas.-Gen. Mgr.; T. G. Graham, Fcty. Mgr.; J. B. Rieker, Ch. Engr.-Master Mech.; I. C. Monroe, Prod.-Mgr.; J. J. Flynn, Pur. Agt.; J. B. Paltz, Asst. Pur. Agt.	Lake St.
K	MILLER, J. B. KEYLESS LOCK CO., THE. Jas. B. Miller, Pres.; E. M. Miller, V. P.-G. M.-Supt.; J. P. Miller, Sec.-Treas.	
E	THOMART MOTOR CO., THE. W. G. Thompson, Pres.; Jas. L. Stewart, V. P.-G. M.; B. A. Shriber, Sec.-Treas.; P. B. Brown, Sales Adv.; W. A. Parrish, Ch. Engr.; L. B. Jackson, Gen. F.; S. A. Klinger, Supt.	
KENTON, HARDIN COUNTY, OHIO		
P-CC-ZZ	CHAMPION ENGINEERING CO., THE. W. A. Norton, Pres.; R. W. Valls, V. Pres.-Sales Mgr.; Anson Gear, Secy.; O. A. Ruse, Treas.; E. B. Phillips, Gen. Mgr.; W. B. McCracken, Fcty. & Prod. Mgr.; Harry Holmes, Ch. Engr.; Lee Stinson, Gen. Supt.; N. J. Alexander, Pur. Agt.	
B-DD-II	IDEAL MACHINE COMPANY. Information withheld.	
A-B	OHIO MACHINE TOOL CO., THE. W. D. Sayle, Pres.; H. W. Gramlich, V. Pres.; C. C. Swift, S.-T.-G. M.; R. D. Shields, Ch. Engr.-Prod. Mgr.; L. H. Peters, Gen. Supt.	
D	SCIOTO SIGN CO., THE. Libbey O. Griffith, Sales Mgr.; E. J. Showe, Gen. Supt.; A. C. Johnson, Sales Rep.	
H-X	WILMOTH, G. R. CO., THE. G. R. Wilmoth, Pres.; Jos. Rusch, Jr., V. Pres.-Treas.-Gen. Mgr.; M. C. Welch, Secy.	
KINSMAN, TRUMBULL COUNTY, OHIO		
A-B-DD	KIDDLE, R. H. R. H. Kiddle, Prop.	
LANCASTER, FAIRFIELD COUNTY, OHIO		
DD-II	ALTEN, WM. SONS. Wm. Alten, Pres.; Jos. Alten, Secy.-Gen. Mgr.;	

LANCASTER, FAIRFIELD COUNTY, OHIO

Class	Firm and Personnel	Address
H-DD-X-TT	ALTENS FOUNDRY & MCH. WKS. Geo. Alten, Pres.-Gen. Mgr.; A. M. Bigam, Secy.-Treas.; S. O. Burton, Pur. Agt.	
R	CARBON PRODUCTS CO., THE. Edmund Dickey, Pres.; W. E. Gunion, V. Pres.; H. Crumbaker, Secy.; Albert Steiner, Treas.-Gen. Mgr.-Pur. Agt.	
B-DD-II-TT	CLAFLIN ENGINEERING CO. Geo. M. Hickie, Pres.; H. C. Watson, V. Pres.; C. S. Hutchinson, Secy.; John L. Graham, Treas.; F. C. Watson, Ch. Engr.	
RR	EAGLE MACHINE CO., THE. C. B. Whiley, Pres.; F. C. Whiley, S.-T.-G. M.-P. A.; Geo. Whiley, Fcty. Mgr.	
XX	HOCKING GLASS CO., THE. I. J. Collins, Pres.-Gen. Mgr.-Gen. Supt.; E. B. Good, V. Pres.; Thos. E. Fulton, S.-T.; C. J. Denning, Fcty. Mgr.	
RR	HOCKING VALLEY MFG. CO. Ed. Mithoff, Pres.; C. M. Alfred, Secy.; T. C. Alfred, Gen. Mgr.-Sales Mgr.-P. A.; J. W. Pierce, Fcty. Mgr.-Asst. Pur. Agt.	434 S. High Street
XX	INTERSTATE WINDOW GLASS CO. J. H. Campbell, Gen. Mgr.	
XX	LANCASTER GLASS CO., THE. J. E. Hill, Pres.-Fcty. Mgr.; L. Philip Martin, V. P.-Sales; L. B. Martin, Secty. G. M. P. A.; R. H. Strickler, Treas.; W. S. Graham, Ch. Engr.	
	LANCASTER LEATHER CO., THE. F. A. Miller, Pres.; W. N. Clafin, V. Pres.-Gen. Mgr.; C. S. Hutchinson, Secy.-Treas.	
	LANCASTER LENS CO., THE. E. Dickey, Pres.; W. E. Gunion, V. P.-Treas.; Albert Steiner, Secty.; R. Nourse, P. A.; H. R. Guliam, Gen. Supt.	
YY	LANCASTER TIRE & RUBBER CO., THE. E. E. Lerch, Pres.; L. F. Porter, Secy.; O. H. Williams, Treas.-G. M.; Richard Gibson, Jr., Fcty. Mgr.; Gen. Supt.; B. L. Smithers, Ch. Engr.; A. Atwater, Sales Mgr.	

LARUE, MARION COUNTY, OHIO

DD	THEW, W. E. & SON. W. E. Thew, Prop.
----	--

LEBANON, WARREN COUNTY, OHIO

ZZ	OREGONIA BRIDGE CO., THE. Thos. R. Spencer, Pres.-Gen. Mgr.-Pur. Agt.; W. W. Mills, V. Pres.; Howard W. Ivins, Secy.; Chas. A. Spencer, Treas.-Fcty Mgr.-Asst. Pur. Agt.; P. O. Monfort, Ch. Engr.
----	---

LEETONIA, COLUMBIANA COUNTY, OHIO

C-ZZ	FABRICATED STEEL PROD. CO., THE. Harry Lindemann, P. G. M.-P. A.; A. S. Keller, Supt.-Secty.; W. McInnes, Treas.	
G	HANNA FURNACE CO., THE. H. H. Foote, G. M.; Geo. Johnson, Supt.	M. O. Cleveland, O.)
B-K-II	LEETONIA TOOL CO., THE. Jno. R. Flooding, Pres.; E. E. Stitler, V. P.; C. E. Holt, Secty.-G. M.-P. A.; P. R. Rauch, Supt.	
G	McKEEFREY IRON CO., THE. W. D. McKeefrey, P.-G. M.-P. A.; E. M. Peters, Supt.	(M. O. Pittsburgh)
S	YOUNGSTOWN & OHIO RIVER R. R. J. D. Dewees, V. P.-G. M.-P. A.	530 Pearl St.

LEIPSIC, PUTNAM COUNTY, OHIO

R-AA-OO	TEMCO ELEC. MOTOR CO., THE. Information withheld.
---------	---

LEXINGTON, PREBLE COUNTY, OHIO

Class	Firm and Personnel	Address
H-X-DD	KENNEY FDY. & MFG. CO., THE Information withheld.	(Branch Mansfield, O.)
C-K-NN	SMITH GAS ENGR. CO., THE Information withheld.	(Br. Dayton, Ohio).

LIMA, ALLEN COUNTY, OHIO

M	ATCO WRENCH COMPANY. C. C. Gilliland, Secy.-Treas.-Pur. Agr.; R. C. Lightfoot, Supt.	
C	BUCKEYE MACHINE CO. G. A. Herrett, V. Pres.-Treas.; L. F. Hilmes, Secy.; C. P. Neiswander, Supt.-Pur. Agt.	
C-W-NN	CHALMERS PUMP & MFG. CO. C. S. Brown, Pres.; F. D. Shumat, V. Pres.; Fred Biszantz, Secy.-Treas.-Pur. Agt.	
B-SS	EAST IRON COMPANY. C. C. Mosher, Pres.; C. Capron, Supt.-Pur. Agt.	
C	GOLLEY FINDLAY IRON WORKS. J. Findlay, Gen. Mgr.	
E	GRAMM BERNSTEIN MOTOR TRUCK CO. R. W. Austin, Gen. Mgr.	
A-DD	LIMA MACHINE TOOL CO. W. R. Roberts, Prop.	
B-DD-II	STEINER BROS. A. P. Steiner, Prop.-Pur. Agt.; Peter Steiner, Prop.; Alrich Steiner, Prop.-Ch. Engr.; J. Steiner, Prop.	

LISBON, COLUMBIANA COUNTY, OHIO

G-K	NATIONAL BRASS & COPPER CO., THE. B. Goldsmith, P. G. M.; M. Goldsmith, S.-T.-P. A.; H. A. Shaw, Ch. Engr.; W. W. Sexton, Supt.; B. Perkins, M. M.	
XX	THOMAS, R. & SONS CO., THE. A. G. Mason, G. Mgr.	(M. Office E. Liverpool, Ohio).
CC-P-DD	WRIGHT MFG. CO. H. H. Wright, Pres.; C. F. Wright, Sec.-Treas.; H. F. Wright, V. P.; W. F. Wright, V. P.; Geo. Kuntz, Fdry. Supt.; Reese Lewis, Shop Supt.	

LOCKLAND, HAMILTON COUNTY, OHIO

SS-TT-B	GEDGE-GRAY CO., THE. Information withheld.
---------	---

LOGAN, HOCKING COUNTY, OHIO

D-K-HH	BREMEN METAL STAMPING CO., THE. A. D. Hufford, Pres.; A. W. Lenhart, V. Pres.; Chas. Welty, Secy.; Alph Lecrone, Treas.; C. L. Adcock, Gen. Mgr.; W. G. Trickey, Fcty. Mgr.	
BB-B-I-K-NN	BUCKEYE SUPPLY COMPANY. Information withheld.	
H-X-DD	LOGAN FDY. & MCH. CO. Information withheld.	

LONDON, MADISON COUNTY, OHIO

RR	DANIELS PLOW COMPANY. E. H. Daniels, Pres.	
D-QQ	THOMAS & ARMSTRONG CO., THE. M. B. Armstrong, Pres.-G. M.; F. H. Thomas, V. P.; C. L. Thomas, Secty. Sales Mgr.; R. W. Boyd, Treas.; W. E. Lofgren, Ch. Engr.-Prod. Mgr.; C. A. Bangert, Fcty. Mgr.;	Maple & Penn R. R.

We're Never Surprised When A "Peerless"
 Reamer Hangs Up An Extraordinary Record.
 It Happens So Often.

LONDON, MADISON COUNTY, OHIO

Class	Firm and Personnel	Address
MM-H-X	WEST MFG. COMPANY. Chas. C. Green, Pres.; W. C. Green, Treas.-Gen. Mgr.	
	WILLIAMS COMPANY, THE J. K. Williams, Pres.; F. M. Wallace, V. Pres.; John M. Cole, Secy.; Wm. H. Robbins, Treas.-G. M.; C. E. Galvin, Ch. Engr.; H. B. Converse, Gen. Supt.; I. S. Malambre, Pur. Agt.	90 W. First St.

LORAIN, LORAIN COUNTY, OHIO

D	AMERICAN SHOVEL & STAMPING CO., THE. R. T. Martin, G. M.	
M-DD	BRUNK MCH. & FORGING CO., THE W. M. Dabney, Pres.; C. E. Krantz, V. P.; Philip Brunk, Sec.-Treas.-G. M.-P. A. Supt.	946 Broadway
F	COOPERATIVE PATTERN WORKS Wm. A. Miller, Mgr.; Chas. Christman, Secy.-Treas.	2034 Elyria Ave.
F	GENERAL PATTERN CO., THE F. W. Dunston, Pres.-G. M.-P. A.	169 Buckeye St.
C-EE	LORAIN BOILER WORKS Geo. C. Tresell, Prop.; W. N. Tresell, Prop.	257 Broadway
H-X	LORAIN BRASS & BRONZE FDY. CO., THE F. M. Stephenson, Pres.-G. M.-P. A.; E. W. Gable, V. Pres.-Fcty. Mgr.; Gen. Supt.; H. J. Yeckley, Secy.; E. G. Yeckley, Treas.	Washington Ave. & N. P. R. R.
H-X	LORAIN CASTINGS CO., THE F. A. Smythe, Pres.; C. B. Smythe, V. Pres.-Sales Mgr.; R. B. Miller, Secy.-Treas.; A. W. Smythe, Gen. Mgr.; H. B. Newton, Pur. Agt.	
H-X	LORAIN STEEL FOUNDRY CO. W. W. Davidson, Pres.-Gen. Mgr.-Pur. Agt.; W. D. Jones, V. Pres.-Secy.; C. M. Hartzell, Treas.-Sales Mgr.	E. 28th & Globe Sts.
D	STEEL STAMPING CO., THE Joseph Gould, Pres.; Alex. Altfeld, V. P.; Harry Bregman, Secty.-G. M.-P. A.; T. C. Metzger, Treas.; R. Rogers, Gen. Supt.; Edw. Prieskorn, M. M.; Edw. Gould, Sales Mgr.	3553 Broadway
SS-CC	THEW SHOVEL CO., THE F. A. Smythe, Pres.; C. B. Smythe, V. P.; R. B. Miller, Sec.-Treas.; C. A. Weber, Ch. Engr.; Wm. Harris, Prod. Supt.; H. B. Newton, P. A.; A. C. Lundgren, Asst. P. A.	
E	UNIVERSAL BEARING CO., THE E. G. Yeckley, Pres.; F. M. Stephenson, V. P.; H. J. Yeckley, Sec.-Treas.-G. M.-P. A.	345 Broadway
EE	WHEATLEY, JOHN P. John P. Wheatley, Prop.	

LOUDENVILLE, RICHLAND COUNTY, OHIO

HHH	OHIO GREASE CO., THE. C. A. Fisher, Pres.; W. A. Wander, V. P.; E. W. Beardsley, Secty.-G. M.-Sales; R. W. Beardsley, Treas.-P. A.	
-----	--	--

LOUISVILLE, STARK COUNTY, OHIO

E	CANTON RIM CO., THE F. G. Graber, Pres.; J. J. Listinger, V. P.; Wm. Barnhart, Secty.-P. A.; C. G. Allison, Treas.; C. E. Doerschur, Supt.-G. M.	N. Chapel St. (Main Office Canton Ohio)
H-X	COLONIAL FDY. CO., THE C. A. Jackson, Pres.-G. M.-Treas.-P. A.; Homer Schmidt, V. P.; H. C. Roller, Secy.; Robt. E. Hug, Supt.	Chappel St
B-R-DD	LOUISVILLE MCH. MFG. CO., THE O. L. Keim, Pres.; Paul Loichot, G. M.-P. A.; Chas. H. Snyder, Supt.	N. Mill St
G-JJ	LOUISVILLE SHEET STEEL CO., THE Dr. Jas. Fraunfelter, Pres.; H. E. McCoy, V. P.; G. A. Rudy, Sec.-Treas.-P. A.; Geo. Smead, Fcty. Supt.-Engr.	Willow St
G-JJ	SUPERIOR SHEET STEEL CO., THE. H. A. Roemer, V. P. Gen. Mgr.; C. A. Williams, Asst. G. M.; Thos. Heacock, Ch. Engr.; F. P. Lawrence, Supt.; P. L. Howenstine, P. A.	

LOWELLVILLE, MAHONING COUNTY, OHIO

Class	Firm and Personnel	Address
AAA	GRASSELLI POWDER CO., THE	See M. O. Cleveland, O.
C	MEEHAN BOILER AND CONST. CO., THE. Patrick Meehan, Pres.-G. M.; Jas. Meehan, Jr., Sec.-P. A.; Thos. Meehan, Supt.	
G-JJ	SHARON STEEL HOOP CO., THE	See M. O. Sharon, Pa.

LUCAS, RICHLAND COUNTY, OHIO

M-K	NIAGARA MFG. CO., THE. Information withheld.
-----	---

MACKSBURG, WASHINGTON COUNTY, OHIO

K	MACKSBURG TOOL CO, THE. C. S. Blakeslee, Pres.; W. O. James, V. P.; J. D. James, Sec.-Treas.; W. E. Fisher, G. M. Managing Dir.
---	--

MADISON, LAKE COUNTY, OHIO

RR	IRON KING IMPLEMENT CO., THE. W. E. Arnold, Pres.-Gen. Mgr.-Ch. Engr.; A. E. Russ, Sr., V. Pres.; J. H. Huggins, Secy.; A. W. Leet, Master Mech.
KK	RUSS, A. E. TWIST DRILL CO., THE. A. E. Russ, Pres.-G. M.-P. A.
DD-D-E	SIMPLICITY PRODUCTS CO., THE. Information withheld.

MALTA, MORGAN COUNTY, OHIO

RR	BROWN-MANLY PLOW CO., THE. Information withheld.
----	---

MANSFIELD, RICHLAND COUNTY, OHIO

EE-C	ACKERMAN, B. F. B. F. Ackerman, Prop.	
HH	AMERICAN CHAIN COMPANY	M. O. Bridgeport, Conn.
	Information withheld.	
V-RR	AULTMAN & TAYLOR MCHY. CO., THE J. E. Brown, Pres.; B. Hurxthal, Secy.; G. P. Alexander, Treas.; G. P. Willis, Asst. Treas.; H. L. Brunger, Wks. Mgr.	343 N. Main St.
NN	BARNES MFG. CO., THE. C. H. Voegelé, Pres.; Wm. Dow, V. Pres.; T. R. Barnes, Secy.-Gen. Mgr.; E. J. Gilbert, Treas.; Sidney Smith, Fcty. Mgr.-Gen. Supt.; J. C. Gorman, Ch. Engr.; F. L. Grimes, Prod. Mgr.; Antone Fuessner, Master Mech.; J. C. Custer, Pur. Agt.	
F-DD	BARR, LLOYD S. Lloyd S. Barr, Prop.	
F	BERLO, H. H. H. H. Berlo, Prop.	
H-X	BUCKEYE TEMPERED COPPER & BRASS CO. C. H. Voegelé, Pres.; T. R. Branes, V. P.; E. J. Gilbert, Secy.-Treas.; Theo. F. Frank, G. M.-P. A.	E. 3rd St. & Penna Railroad
VV	BUSHNELL NOVELTY CO. C. B. Bushnell, Prop.	
YY	COLUMBIA TIRE & RUBBER CO., THE G. W. Henne, Pres.; W. G. Henne, V. Pres.-Gen. Mgr.; S. D. Isaly, Secy.-Treas.; H. R. Platt, Fcty. Mgr.-Gen. Supt.; W. Trauger, Ch. Engr.; W. Nagle, Prod. Mgr.; O. C. Kalbfleisch, Master Mech.; R. H. Sutherland, Pur. Agt.; F. M. Chase, Sales Mgr.	270 W. Sixth St.

Having Trouble With Broken Drill Tangs?
 Use "Perfect Double Tang" Sockets.

MANSFIELD, RICHLAND COUNTY, OHIO

Class	Firm and Personnel	Address
EE	DEIMER, JOHN J. John J. Deimer, Prop.	
GGG	ECLIPSE STOVE CO., THE W. J. Tappan, Pres.; W. H. Tappan, V. Pres.; P. R. Tappan, Secy.-Treas.; C. S. Race, Asst. Secy & Cashier.	Bowman St.
AA	GLOBE IRON-CRUSH & SHOT CO., THE W. J. Tappan, Pres.; E. O. Townsend, V. Pres.; L. A. Cline, Secy.-Treas.-Gen. Mgr.-P. A.; M. Merschdorf, Fcty. Mgr.-Gen. Supt.; Frank Seidel, Ch. Engr.	First Ave.
R-E	HARTMAN ELECTRICAL MFG. CO., THE R. W. Hartman, Pres.-Treas.; C. T. Anderson, V. Pres.-Gen. Mgr.; F. O. Hartman, Secy.	31 E. Fifth St.
QQ-ZZ	HUGHES-KEENAN CO., THE Arthur S. Hughes, Pres.-G. M.; Louis Freundlich, V. P.; George H. Calhoun, Sec.-Treas.-P. M.; Wm. H. Hoffman, Ch. Engr.; O. F. Schaller, P. A.	260 N. Mulberry St.
BB-I	HUGHES SUPPLY CO., THE Frank A. Hughes, Pres.; Geo. H. Hughes, Secy.; C. S. Hughes, Treas.	210 N. Main St.
NN-K-GGG	HUMPHREYS MFG. CO., THE W. G. Moore, Pres.-Gen. Mgr.; O. M. Gales, Secy.-Treas.; J. G. Groscost, Asst. Secy.; R. G. French, Asst. Treas.	
R	IDEAL ELECTRIC & MFG. CO., THE C. H. Voegelé, Pres.-Treas.; Wm. Dow, V. Pres.; S. Glen Vinson, Secy.-Gen. Mgr.; W. C. Bewlay, Fcty. Mgr.; Gen. Supt.; Theo. Schou, Ch. Engr.; L. O. Stone, Master Mech.; O. H. McDaniel, Pur. Agt.	
H-X	KENNEY FOUNDRY & MFG. CO. Andres Kass, Pres.; John Kass, V. Pres.; H. D. Kenney, Secy.-Gen. Mgr.; J. M. Cousins, Treas.	Olivesburg Rd.
RR	LEAN, RODERICK MFG. CO. A. B. McLean, Pres.-G. M.; E. W. Meese, V. P.; D. O. Meese, Sec.-Treas.; C. A. Hines, P. A.; F. C. Cahall, Fcty. Mgr.-Supt.; C. E. Shiplet, Prod. Mgr.; E. N. Bushnell, Asst. P. A.	
H-DD-K	MANSFIELD BRASS FOUNDRY. J. H. Berry, Prop.	
U	MANSFIELD LOCK WASHER CO., THE W. H. Davey, Pres.; A. E. Witter, Secy.-Treas.-Pur. Agt.	230 N. Adams St.
F	MANSFIELD PATTERN WKS. W. J. Neidhart, Prop.	141 N. Adams St. (Rear)
G-JJ	MANSFIELD SHEET & TIN PLATE CO., THE W. H. Davey, Pres.-Treas.-Gen. Mgr.; C. F. Ackerman, V. Pres.; A. T. Davey, Secy.; Samuel Davey, Asst. Gen. Mgr.; F. W. Beach, Sales Mgr.	N. Bowman St.
YY	MANSFIELD TIRE & RUBBER CO., THE C. R. Grant, Pres.; G. W. Stephens, V. Pres.; Gen. Mgr.; J. E. LaDow, Secy.; Chas. Hoffman, Treas.; C. L. Willsey, Asst. Treas.; H. F. Webster, Sales Mgr.	315 Newman St.
C-GG-QQ	MARTIN STEEL PRODUCTS CO., THE C. Oberlin, Pres.; Samuel Davey, V. Pres.; H. S. Black, Treas.	210 N. Adams St.
GGG	NEW METHOD STOVE CO. B. A. Baxter, Gen. Mgr.; H. H. Sanford, Secy.; G. A. Hoffman, Supt.	22 Elm St.
	NORTH AMER. WATCH CO. W. W. Stark, Pres.; E. M. Stark, V. P.; R. B. Piowaty, Secy.-P. A.-Sales; H. H. Hering, Treas.; H. Hoppe, Ch. Engr.; A. D. Caddell, Fcty. Mgr.-Supt.	Spring St.
K-R-S-H-X	OHIO BRASS CO., THE Frank B. Black, Pres.; Charles K. King, V. Pres.; Edward F. Wickwire, Secy.; Claude V. Marks, Treas.; Louis Olson, Fcty. Mgr.; P. J. Kelly, Prod. Mgr.; B. W. Forkner, P. A.	
R-XX	OHIO INSULATOR CO., THE F. B. Black, Pres.; E. F. Wickwire, Secy.; C. V. Marks, Treas.; A. O. Austin, Mgr.-Ch. Engr.	Office Ohio Brass Wks.—Plant Barberton, O.
YY	PERFECT RUBBER CO., THE C. H. Voegelé, Pres.; J. M. Pitney, Secy.-Gen. Mgr.; E. O. Townsend, V. Pres.; F. M. Bushnell, Treas.	5th & Wayne Sts.
N	PERFECTION BED SPRING CO. Information withheld.	
R	PHOENIX ELECTRIC CO. A. C. Linzee, Prop.; C. J. Blair, Sales Mgr.	Wayne & 5th Sts

MANSFIELD, RICHLAND COUNTY, OHIO

Class	Firm and Personnel	Address
DD	STANDARD MCH. & REPAIR CO. Harry Sowash, Prop.; Albert G. Wentz, Prop.	43 Parker St.
H-X	SUPERIOR BRASS MFG. CO., THE W. J. Spreng, Pres.; W. S. Valmore, V. P.-Fcty. Mgr.-Supt.; E. K. Bacon, S.-T.-G. M.-P. A.-Sales; P. W. Minich, Asst. P. A.	92 Wayne St.
GGG-D-H-X	TAPPAN STOVE CO., THE W. J. Tappan, Pres.; W. H. Tappan, V. Pres.-Gen. Mgr.; P. R. Tappan, Secy.-Treas.; T. E. Taylor, Fcty. Mgr.; W. R. King, Pur. Agt.; E. M. Yeingst, Asst. Pur. Agt.	
DD-II-EE	TAYLOR & DISE MACHINE CO., THE G. W. Taylor, Pres.; F. C. Dise, Secy.-Treas.	116 Miller St.
R	WESTINGHOUSE ELECT. PROD. CO. E. M. Olin, Fcty. Mgr.; F. Thornton, Jr., Ch. Engr.; J. E. Lautsbaugh, P. A.; J. E. Smith, Gen. Supt.	200 E. 5th St.

MARIETTA, WASHINGTON COUNTY, OHIO

UU	DRAGON MFG. COMPANY W. R. Torner, Pres.-G. M.-Fcty. Mgr.-P. A.; Chas. Tresch, Secy.; Howard Torner, Treas.; Wm. C. Pease, Gen. Supt.	Union St.
C	HICKS, CHAS. Chas. Hicks, Prop.	
B-K	LEIDECKER TOOL CO., THE F. H. Leidecker, Pres. Gen. Supt.; J. M. Leidecker, V. Pres.; A. P. Thomas, Secy.; J. Leidecker, Treas. G. M. P. A.; P. B. Stewart, Fcty. Mgr.; H. M. Shafer, Ch. Engr.	
H-X	MARIETTA CASTING COMPANY Bert Steadman, Prop.	507 Wood St.
B	PATTIN BROS. CO., THE Information withheld.	
G-JJ	PITTSBURGH TIN PLATE & STEEL CORP. A. V. Somers, V. P.-G. M.-Treas.; Geo. J. Birmingham, Gen. Supt.	(Genl. Offices Columbus, O.)
C	REID, JOSEPH GAS ENGINE CO. W. O. Platt, Pres.; A. T. Turner, Secy.-Treas.; F. R. Schoup, Gen. Mgr.; H. L. Hileman, Fcty. Mgr.-Sales Mgr.; John Reid, Ch. Engr.	133 Second St.
D-QQ	SAFE CABINET CO. R. H. Dick, Pres.-Gen. Mgr.; Edgar W. Hopp, V. Pres.-Fcty. Mgr.; E. H. Wigginton, S.-T.; Carl Wolters, Ch. Engr.; Frank Hart, Gen. Supt.; A. W. Lankford, Pur. Agt.	Norwood
DD	STAR MACHINE SHOP L. G. Wood, Prop.	
RR	STEGNER MACHINE COMPANY P. Stegner, Prop.	703 E. Green St.
	STEVENS ORGAN & PIANO CO., THE B. F. Strecker, Pres.; J. H. Brenan, V. Pres.; W. T. Hastings, Sec.-Treas.-G. M.-P. A.	105 Gilman St.
B-NN-M	UNITED STATES TOOL & SUPPLY CO., THE J. M. Coffman, Pres.; M. C. Ginsburg, Secy.; Alex Ginsburg, Treas.; M. L. Ginsburg, Gen. Mgr.-Gen. Supt.-P. A.	126 Market St.

MARION, MARION COUNTY, OHIO

DD	BROCKETT COMPANY D. E. J. Brockett, Pres.-Gen. Mgr.	
C-S-V-RR	HUBER MFG. CO. G. Moore, Supt.	
C-P-Z-SS	MARION STEAM SHOVEL CO. F. A. Huber, Pres.; C. B. King, V. Pres.; H. C. Barnhart, Secy.-Treas.-Pur. Agt.; Ben Jacoby, Chief Engr.; J. W. Fellmuth, Supt.	
C-P-Z-SS	OSGOOD COMPANY. Information Withheld.	

MARION, NARION COUNTY, OHIO

Class	Firm and Personnel	Address
G-M-LL	POLLAK STEEL CO. Emil Pollak, Pres.; B. E. Pollak, V. Pres.; M. E. Pollak, V. Pres.; J. A. Pollak, V. Pres.; G. E. Meyers, Pur. Agt.;—Cincinnati, Ohio. G. W. Jakeway, Wks. Mgr.	
C	POWER MFG. CO. Geo. L. Craig, Pres.; J. M. Primm, V. Pres. & Gen. Mgr.; F. B. Morrison, Secy.-Treas.; C. H. Strasburg, Supt.; E. N. Snyder, Pur. Agt.	
DD	TITUS MACHINE SHOP. Information withheld.	

MARTINS FERRY, BELMONT COUNTY, OHIO

D	ACME SHEET METAL CO. -----1st & Hanover Sts. Robt. R. Kerr; A. W. Kerr, Props.	
AAA	AMERICAN OXIDE CO. -----S. Second Street G. A. Linsky, Pres.; Mike Linsky, V. P.; P. J. Gaertner, Sec.-Treas.; Wm. H. Neal, G. M.-P. A.; Samuel C. Martin, Fcty. Mgr.	
G-JJ	AMER. SHEET & TIN PLATE CO. -----Main Office Pittsburgh, Pa. E. W. Pargny, Pres.; F. A. Davis, V. P.; H. B. Wheeler, Sec.-Treas.; W. T. Hugus, G. M.-Fcty.; W. H. Bycott, M. M.; M. S. Dennis, Gen. P. A. (Pgh., Pa.)	
DD-TT	ARTCRAFT MOLD -----N. 1st St. George R. Hipkins, Prop.-G. M.-P. A.	
H-X	BEANS, JAS. H. Jas. H. Beans, Prop.	
H-X	BUCKEYE BRASS FOUNDRY -----Avondale Ave. Harry Weidetz, R. H. Burkle, Victor Gregory, Props.	
ZZ	RIVERSIDE BRIDGE CO. -----Third & Walnut Sts. A. C. Whitaker, Pres.; Alex Glass, V. P.; F. J. Park, Sec.-Treas.; J. H. Lesh, Gen. Mgr.; A. H. Deering, Ch. Engr.; H. O. Laupp, P. A.	
GGG	STANTON HEATER CO., THE -----Dewey St. Geo. L. Spence, Pres.-G. M.-Gen. Supt.; E. K. Hoge, V. P.; S. T. Kerr, Sec.-Treas.-P. A.; A. B. Gordon, Fcty. Mgr.	
F	WATSON, L. A. L. A. Watson, Prop.	
D-GG	WHITAKER, GLESSNER CO. Fred Nuttal, Fcty. Mgr.; W. B. Greer, P. A.	

MARYSVILLE, UNION COUNTY, OHIO

RR	ADAMS COMPANY. Information withheld.	
H-X-DD-ZZ	MARYSVILLE FDY. & MACH. CO. Merrill M. Turner, Prop.-Supt.	
H-X	REGENT BRASS FDY. CO., THE G. W. Fisher, Pres.; S. L. Fisher, V. Pres. G. M. P. A.; W. J. Holer, G. Supt.	

MASSILLON, STARK COUNTY, OHIO

D	AMERICAN STAMPING AND ENAMELING CO., THE -----Columbia Hgts. J. B. Imler, Pres.; B. P. Leister, Sec.-Treas.-G. M.; W. E. Andrew, Supt.; R. E. Van Foffen, P. A.	
E	BEANS SPRING CO., THE -----Columbia Hgts. Jno. Beans, Pres.-G. M.; C. A. Chevraus, E. Baumgartner, Ch. Engr.; J. A. Bowers, Supt.	
G-JJ	CENTRAL STEEL CO., THE -----Columbia Hgts. R. E. Bebb, Pres.; F. J. Griffith, V. P.-Gen. Mgr.-Grn. Supt.; B. F. Houghton, M. M.; W. S. Orr, Ch. Engr.; Benj. Fairless, Plant Supt.; Geo. Evans, P. A.; A. D. Sipp, Asst. P. A.	
G-D	ENTERPRISE ALUM CO., THE -----Columbia Hgts. R. E. Bebb, Pres.; Blaine Zuver, Treas.-Gen. Mgr.; Harry Zuver, V. P.; Jos. B. Imler, Secy.; F. E. Held, Gen. Supt.; R. F. Krause, P. A. Fcty.; E. J. Koons, P. A. Office.	

MASSILLON, STARK COUNTY, OHIO

Class	Firm and Personnel	Address
C	GEHL & MEYERS. Information withheld.	
C-SS	GRISCOM-RUSSELL CO., THE E. H. Nelson, Gen. Wks. Mgr.; T. E. Sellen, Asst. Wks. Mgr.; A. H. Stone, Prod. Mgr.; J. Price, Ch. Engr. (N. Y. City); Edw. Dewald, Gen. Supt.; Jos. O'Neill, P. A.; J. E. Achemier, Ch. Draft.	Lincoln Ave. (Main Office New York City)
H-X-UU	HESS-SNYDER & CO., THE E. H. Snyder, G. M.-P. A.; Albert A. Hess, Supt.	415 S. Erie St.
D	MASSILLON ALUM. CO., THE J. V. Miller, Secty.-G. M.-P. A.; Thos. Kelly, Supt.	733 Canal St.
ZZ	MASSILLON BRIDGE & STRUC. CO., THE Elton Rice, Pres.-G. M.; Fred H. Snyder, V. P.; C. D. Yost, Sec.-Treas.-P. A.; S. E. Rice, Ch. Draft.; D. L. Gregory, Supt.	M. & C. Junction
WW-H-X	MASSILLON FDY. & MCH. CO., THE I. M. Taggart, Pres.; F. G. Harrison, V. P.-G. M.-Treas.; W. J. Cadman, Secty. Asst. Treas.-P. A.; Howard Terhune, Ch. Engr.; A. C. Creter, Supt.; J. H. Beatty, Asst. P. A.	Columbia Hgts.
G-JJ	MASSILLON ROLLING MILLS CO. R. E. Bebb, Pres.; F. J. Griffith, V. P.-Gen. Mgr.; W. S. Orr, Ch. Engr.; Benj. Fairless, Gen. Supt.; Geo. Evans, P. A.; A. D. Sipp, Asst. P. A.	Columbia Hgts. (See Central Steel Company).
H-X	MASSILLON STEEL CASTING CO., THE E. H. Birney, Pres.; Fred H. Snyder, V. P.; F. O. Humberger, Secy.; A. H. Anthony, G. M.-P. A.; T. M. Taggart, Treas.; C. E. Nordfeldt, Supt.	Columbia Hgts.
G-JJ	NATL. PRESSED STEEL CO., THE F. W. Snyder, Pres.; E. H. Birney, V. P.-Gen. Mgr.-P. A.; E. C. Hoefer, Ch. Engr.; R. Stearn, Asst. P. A.; Wm. L. Beuchling, Supt.	Columbia Hgts. (See Central Steel Co.)
D-U	PEERLESS DRAWN STEEL CO., THE F. W. Snyder, Pres.; E. H. Birney, V. P.-Gen. Mgr.-P. A.; E. C. Hoefer, Ch. Engr.; R. Stearn, Asst. P. A.; Wm. L. Beuchling, Supt.	800 Sippo St.
B	RELIANCE MFG. CO., THE Frank C. McLain, Pres.; E. W. Hart, V. P.-Fcty. Mgr.; L. A. Shertzer, Ch. Engr.; K. W. Atwater, P. A.; Thos. Spuhler, Supt.	Cor. Sippo & McLean Street
V-B-C-RR-SS	REYNOLDS MACHINE CO., THE Floyd C. Snyder, Pres.; O. F. Binford, Sec.-Treas.-P. A.; Jas. C. Steen, Ch. Engr.; G. F. McNulty, Supt.	
	RUSSELL & CO., THE E. C. Merwin, Pres.-G. M.; Chas. O. Heggem, V. P.-Supt.; I. A. Yost, V. P.-P. A.; F. D. Merwin, V. P.; C. R. Heggem, V. P.; H. A. Dalsky, Sec.-Treas.	814 Erie St.

MASURY, TRUMBULL COUNTY, OHIO

S-C	STANDARD TANK CAR CO., INC. Information withheld.
-----	---

MEDINA, MEDINA COUNTY, OHIO

H-X	HENRY FURNACE & FDRY. CO., THE	(See Cleveland, O.)
E-V	MEDINA MFG. CO., THE R. D. Fildes, G. M.-Supt.; A. E. Thatcher, Secty.-P. A.	
	ROOT, A. I. CO., THE R. W. Boyden, G. M.-P. A.; F. M. Sedgwick, Gen. Supt.; G. Wilder, Asst. Supt.	

MIAMISBURG, MONTGOMERY COUNTY, OHIO

	BOOKWALTER WHEEL CO., THE Information withheld.	
DD	GRESSBACK, HENRY & SONS. Henry J. Gressback, Prop.	
B	HOOVER & GAMBLE CO., THE J. S. Kepler, Pres.; M. O. Kepler, V. Pres.; L. J. Kepler, Secy. Treas.	

MIAMISBURG, MONTGOMERY COUNTY, OHIO

Class	Firm and Personnel	Address
H-X	MIAMI FOUNDRY CO., THE. Information withheld.	
H-X	NATL. STOVE REPAIR. M. Bloch, Pres.-P. A.-G. M.; C. T. Niehaus, Secty.; A. Mingee, Fcty. Mgr.-Supt.	

MIDDLEPORT, MEIGS COUNTY, OHIO

DD-II	EWING MFG. COMPANY. Information withheld.	
C	MIDDLEPORT BOILER WKS. J. H. Williams, Prop.-G. M.-P. A.; C. Collins, Fcty. Mgr.-Supt.	

MIDDLETOWN, BUTLER COUNTY, OHIO

G-JJ-QQ	AMERICAN IRON ROOFING CO., THE.....	Grand & Young Sts. M. F. Shelt, Pres.-G. M.-P. A.; Harry Ling, V. Pres.; Jos. Luibel, Secy.; James Maher, Treas.
G-JJ	AMERICAN ROLLING MILL CO., THE.....	Curtis Ave. George M. Verity, Pres.; J. H. Frantz (Columbus) 1st V. P.; Chas. R. Hook, V. P.-G. M.; S. E. Eldridge, Asst. V. Pres.; R. C. Phillips, Secy.; C. W. Verity, Treas.; M. E. Danford, Wks. Mgr. (Middletown Div.); H. O. Miller, Dir. Purchases; Newman Ebersole, Asst. Dir. Pur.; D. Eppelscheimer, Consulting Engr.; G. F. Ahlbrandt, Gen. Mgr. of Sales. W. W. Sebald, Asst. Gen. Mgr. of Sales.
R	BARKELEW ELEC. MFG. CO., THE.....	311 Canal St. C. W. Denny, Pres.-Treas.-Pur. Agt.; W. O. Barnitz, V. Pres.; Geo. W. Denny, Secy.
B-DD-II	BEVIS & SHARTLE MACHINE CO.....	West 3rd St. Guy Bevis, Prop.
DD	ENTERPRISE MACHINE CO.....	West 3rd St. G. R. Zecker, Gen. Mgr.; W. E. Sharkey, Ch. Engr.
DD-HH-U-EE	MIAMI CYCLE & MFG. CO., THE.....	Grand Ave. James W. Ash, Pres.-G. M.; Edgar Boren, Sr., V. P.; A. H. Walburg, Sec.-Treas.; Ralph E. Blackford, Fcty. Mgr.-Ch. Engr.; Edgar Boren, Jr., Asst. P. A.; O. Hartzell, P. A.; Wm. Swigart, M. M.
A-B-AA	OAKLEY MACHINE TOOL CO., THE. Abbott A. Thayer, Pres.; Thursten Merrell, V. P.; B. J. Frenkel, Secty.-P. A.; R. Ruzicka, Treas.	
G-JJ-QQ	OHIO CORRUGATED CULVERT CO., THE.....	Grand & Young Sts. (See American Iron Roofing Co.)
B	SHARTLE BROS. MACHINE CO., THE.....	Clark St. Chas. W. Shartle, Pres.; G. Kaffenberger, V. Pres.; Homer Martindale, Sec.-Treas.-P. A. C. Crawford, Ch. Engr.
DD	WEAVER MACHINE SHOP.....	Wall St. A. Weaver, Prop.
B-DD-II	WEBER TOOL, DIE & MACHINE CO.....	Wall St. Arthur Weber, Pres.-Treas.-P. A.; Chas. Butterfield, Secty.; Walter Bullard, Fcty. Mgr.
A-B-WW	WILLARD-MIDDLETOWN MCH. CO., THE. G. Mattman, Pres.-Gen. Mgr.; Thomas L. Bratten, Secy.-Treas.; Geo. Schaefer, Fcty. Mgr. Gen. Supt.; C. H. Miller, Ch. Engr.; F. M. Mendenhall, Pur. Agt.; A. A. Troyke, Sales Mgr.	

MILLERSBURG, HOLMES COUNTY, OHIO

DD-II	MILLERSBURG MCH. CO. J. S. Ashworth, Prop.; T. Ashworth, Prop.; F. J. McDabe, Prop.	
-------	--	--

MINERAL RIDGE, TRUMBULL COUNTY, OHIO

OHIO STEEL PRODUCTS CO., THE. Information withheld.	
--	--

MINERVA, STARK COUNTY, OHIO

Class	Firm and Personnel	Address
DD-B	LINCOLN MCH. CO., THE. A. J. Kokel, Pres.; Fred Riesen, V. P.; W. G. Kryder, Sec.-Treas.-G. M.-P. A.-Supt.	
XX	OWEN CHINA CO., THE C. W. Foreman, Pres.-G. M.; M. Shaw, V. P.; H. W. Kibler, Secty.; F. B. Cross, Treas.-P. A.; C. Tillet, Ch. Engr.; W. J. Thrower, Fcty. Mgr.-Supt.; Carl Gooch, M. M.	Valley St.

MINGO JUNCTION, JEFFERSON COUNTY, OHIO

G	CARNEGIE STEEL COMPANY----- Other information withheld.	Main Office and Purchasing Dept., Pitts., Pa.
U	OHIO NUT & WASHER CO., THE. C. B. Lanman, Pres.-P. A.; H. A. Lanman, V. P.; E. B. Lanman, Secty.	

MINSTER, AUGLAIZE COUNTY, OHIO

H-S-V	INDUSTRIAL EQUIP. CO., THE. F. J. Thieman, Pres.; J. W. Eiting, V. P.; W. A. Havemann, Secty.-P. A.-G. M.; August Schunck, Treas.; L. L. Cass, Ch. Engr.	
A-B-Y	MINSTER MACHINE CO., THE. C. F. Herkenhoff, Pres.; C. L. Dine, V. P.; F. W. Dine, Ch. Engr.-Gen. Supt.; J. W. Eiting, S.-T.; A. L. Herkenhoff, G. M.-Fcty. Mgr.; H. B. Boecker, P. A.	
H-X	ST. MARYS FOUNDRY CO., THE. C. L. Dine, Pres.; A. L. Herkenhoff, V. P.-G. M.; J. W. Eiting, Sec.-Treas.; C. E. Dine, Gen. Supt.	

MOGADORE, PORTAGE COUNTY, OHIO

XX	CAMP BROS CO., THE. Henry Camp, Pres.; L. W. Camp, V. Pres.; C. C. Baird, Secy.; R. E. Armstrong, Treas.	
XX	COLONIAL PRESSED BRICK CO., THE. J. H. Heiser, Pres.; Bert Switzer, Secy.; C. N. Miller, Treas.	
YY	INDIA TIRE & RUBBER CO., THE J. M. Alderfer, Pres.; J. K. Williams, V. P.-Gen. Mgr.; D. A. Grubb, Secty.-P. A.; W. G. Lerch, Supt.	Br. Akron, Ohio
XX-R	MOGADORE INSULATOR CO., THE. C. H. Palmer, Pres.; C. Fenton, V. Pres.-Treas.; F. A. Fenton, Secy.	

MONTPELIER, WILLIAMS COUNTY, OHIO

D	ELKHART STAMPING & TOOL CO. O. A. Gause, Pres.-G. M.; Wm. Gause, V. P.; B. D. Gause, Secty.-P. A.	
---	--	--

MORRAL, MARION COUNTY, OHIO

B	MORRAL BROS. Morral Bros., Props.	
---	--------------------------------------	--

MT. GILEAD, MORROW COUNTY, OHIO

NN-W	HYDRAULIC PRESS MFG. CO., THE W. G. Tucker, Pres.; F. B. McMillin, V. P.-Mgr.-Gen. Supt.; W. C. Batchelor, Secty.; Foster Copeland, Treas.; F. E. Stevenson, Ch. & Sales Engr.; A. L. Boggs, Prod. Mgr.-Asst. P. A.; H. C. Little, P. A.; C. L. Middleton, Sales Mgr.	Lincoln Ave.
------	--	--------------

MT. VERNON, KNOX COUNTY, OHIO

Class	Firm and Personnel	Address
B	BUTCHER BAILING MACHINE CO., THE. Geo. A. McNable, Pres.-Treas.; Warren Butcher, V. Pres.	
	CHAPMAN ENGINEERING CO., THE. Information withheld.	
B-C	COOPER, C. & G. CO., THE B. B. Williams, Pres.-Gen. Mgr.; F. H. Thomas, V. Pres.; Z. E. Taylor, Secy.-Prod. Mgr.; N. L. Daney, Treas.; H. E. Gehres, Ch. Engr.; B. L. Larsen, Gen. Supt.; J. M. Capron, P. A.	N. Sandusky St.
DD-EE	CORNELL'S MACHINE & WELDING SHOP. E. M. Cornell, Prop.-Supt.	
K	HAMMON COUPLER CO., THE. Information withheld.	
	HOPE FORGE & MCH. CO. Information withheld.	
XX	LAMB GLASS CO., THE. Information withheld.	
B-DD-II	MARION DIE TOOL & MCH. CO., THE B. B. Williams, Pres.; Z. E. Taylor, Secy.; N. L. Daney, Treas.	(Also Marion, Ohio)
ZZ	MT. VERNON BRIDGE CO., THE. I. M. Wolverton, Pres.-Treas.; C. G. Conley, Secy.	
H-S-X-B	MT. VERNON FDY. & ENGR. CO., THE. James J. Sexton, Pres.; George L. Mooney, V. Pres.; John W. Mullin, Secy.-Treas.-P. A.; R. J. Fouch, Fcty.-Mgr.-Gen. Supt.	
W-Y	WILLIAMSON HYDRAULIC CLUTCH CO., THE. H. C. Sherman, Pres.; Edgar Thomas, V. Pres.-Gen. Supt.; B. R. Parker, Secy.-G. M.; R. F. Cole, Treas.; E. M. Cornell, Ch. Engr.	

NAPOLEON, HENRY COUNTY, OHIO

C-QQ-ZZ	HELLER-ALLER CO., THE. Fred Ritz, Pres.-Pur. Agt.; O. P. Tietjens, Secy.-Treas.-Sales Mgr.
N	U. S. AUTOMATIC SPRING CO. Information withheld.

NELSONVILLE, ATHENS COUNTY, OHIO

H-X-DD-II	NELSONVILLE FDRY. & MCH. CO., THE. H. H. Jackson, Pres.; R. H. Jackson, G. M.-P. A.	
	OHIO FIREPROOFING CO., THE Information withheld.	M. O. Columbus, Ohio

NEWARK, LICKING COUNTY, OHIO

E	AMERICAN MOTOR TRUCK CO., THE. Information withheld.	
G	BUCKEYE ROLLING MILLS CO., THE	(See Steubenville, Ohio).
B-K	BECKER COMPANY CO., THE J. A. Becker, Pres.-Gen. Mgr.; E. R. Holt, V. Pres.-Pur. Agt.; E. L. Morrison, Sec.-Treas.; E. B. Miller, Fcty. Mgr.-Gen. Supt.; H. G. Headlee, Ch. Engr.	Essex & Indiana Streets.
GGG-QQ	MAY-FIEBERGER FURNACE CO., THE R. A. Gulick, Pres.-Fcty. Mgr.-P. A.; W. W. Davis, V. Pres.; W. K. Wobbecke, Treas.-Secy.; B. B. Pryor, Asst. Treas.-Asst. Pur. Agt.	48 St. Clair St.
YY	PHARIS TIRE & RUBBER CO. A. R. Lindorf, Pres.; C. H. Otto Meyer, V. Pres.; Chas. Lindrooth, Secy.; R. S. Wyeth, Treas.; Carl Pharis, Gen. Mgr.-Fcty. Mgr.; Geo. Bryson, Ch. Engr.; Joe Flannigan, Prod. Mgr.; J. E. Lorentz, Gen. Supt.	
DD	SCHEIDLER MCH. WKS. CO., THE. Information withheld.	

NEWARK, LICKING COUNTY, OHIO		
Class	Firm and Personnel	Address
B-DD-II-H-X	SIMPSON FDY. & ENGR. CO., THE C. C. McGruder, Pres.; J. S. Herzog, V. Pres.-Gen. Mgr.; W. T. Suter, Secy.-Treas.; B. L. Meyers, Ch. Engr.	Sprague St. & B. & O. Railway
DD-II-U	TOOL & MACHINE PRODUCTS CO., THE J. A. Chilcote, Pres.; J. F. Van Voorhis, V. Pres.; H. E. Chilcote, Secy.-Treas.-P. A.; J. S. Herzog, Gen. Mgr.-Fcty. Mgr.	Waldo St.
GGG	WEHRLE CO., THE. Information withheld.	
NEW BREMEN, AUGLAIZE COUNTY, OHIO		
E-CC	AUGLAIZE HOIST & BODY CO. J. H. Grothaus, Pres.; G. A. Kueming, V. Pres.; A. C. Settlege, Treas.-G. M.-P. A.; Fred Lomfersieck, Master Mech.	
ZZ	NEW BREMEN BRIDGE CO., THE. Information withheld.	
A-B-WW	STREINE TOOL & MFG. CO., THE. A. L. Herkenhoff, Pres.; Frank H. Streine, V. Pres.-Gen. Mgr.-Gen. Supt.; J. W. Eiting, Secy.-Treas.; W. M. Strohmeier, Fcty. Mgr.-Pur. Agt.; F. W. Holland, Ch. Engr.; E. A. Kiefer, Master Mech.	
NEWCOMERSTOWN, TUSCARAWAS COUNTY, OHIO		
H-X	BOWES-GARFORTH MFG. CO. Information withheld.	
XX	CLOW, JAS. B. & SONS. W. C. Clow, G. M.-Supt.-P. A.; F. W. Schwab, Asst. Mgr. and Asst. Supt.	
MM	REX FILE CO., THE. A. Heller, Pres.; H. W. Murphy, Treas.; M. Frank Wilson, Gen. Mgr.-Supt. P. A.; Walter D. Craft, Sales Mgr.	Genl Offices Newark, N. J.
K-DD	STERLING SPECIALTY CO., THE. Information withheld.	
NEW LEXINGTON, PERRY COUNTY, OHIO		
	PERRY MFG. CO., THE. Information withheld.	
NN-K	MURRAY PUMP & VALVE MFG. CO., THE R. W. Murray, Pres.-G. M.-Treas.-P. A.; J. T. Pyle, V. P.; W. A. Allen, Secty.; Lloyd Bennet, Gen. Supt.; R. M. Wright, M. M.	Spring St.
S	STAR MFG. CO., THE. Information withheld.	
NEW PHILADELPHIA, TUSCARAWAS COUNTY, OHIO		
G-JJ	AM. SHEET & TIN PLATE CO., THE W. L. Davis, Mgr.; Henry Allman, M. M.; Elmer Griffith, Asst. Supt.-Wks. Mgr.	Main Office Pittsburgh, Pa.
D	BELMONT STAMPING & ENAMELING CO., THE. N. W. Judkins, G. M.-P. A.; R. A. Anderson, Wks. Mgr.; B. DeWitt, Supt.	
A-B-KK-DD	BUCKEYE TOOL & MCHRY. CO., THE. W. R. Ritter, Gen. Mgr.-Wks. Mgr.-P. A.; Jas. Fishel, Supt.	
DD-EE	CARROTHERS, R. S. R. S. Carrothers, Prop.	817 W. High St.
QQ-D	HARMON EAVES TROUGH HANGER CO. M. W. Harmon, Secty.-G. M.; C. H. Harman, Treas.-P. A.-Sales; H. Swisslulm, Fcty. Mgr.	
S-H-X-DD	LADEL MFG. CO., THE. Fred F. Hall, Pres.; Ivor Harris, V. P.; E. C. Browne, S.-T.-P. A.; U. D. Miller, Wks. Mgr.	
I-DD	SHARP MFG. & SUPPLY CO., THE. E. D. Sharp, Pres.-G. Mgr.; E. T. Cox, S.-T.-P. A.; E. G. Olmstead, Shop Supt.	
R-H-X	WISE-McCLUNG MFG. CO., THE. F. Wise, Pres.-G. M.; T. O. Adams, Ch. Engr.; E. E. Gulbrandson, P. A.; C. W. Goettge, Supt.	

Who? **HIGH CLASS EMPLOYMENT SERVICE**

Est. 1906 **INTERSTATE BUSINESS EXCHANGE** Est. 1906

MAIN 3629 658 ROSE BUILDING CLEVELAND

FOR
Executives, Engineers,
Draftsmen, Salesmen,
Office Men and Women

NEW RICHMOND, CLERMONT COUNTY, OHIO

Class	Firm and Personnel	Address
S-H-X	AMERICAN BRAKE SHOE & FOUNDRY CO., THE. Information withheld.	

NEWTON FALLS, TRUMBULL COUNTY, OHIO

	NEWTON FALLS MFG. CO. Chas. H. Carr, Sec.-Treas.-G. M.	
G-JJ	NEWTON STEEL CO. Information withheld.	Also Youngstown, Ohio
ZZ	OHIO STRUCTURAL STEEL CO., THE. M. H. Stauffer, Pres. G. M. P. A.; J. N. Heltzel, V. Pres.; W. E. Calderwood, Secy.; R. B. Stauffer, Trers.; J. S. Mitchell, Ch. Engr.; A. J. Hall, Gen. Supt.	

NEW WASHINGTON, CRAWFORD COUNTY, OHIO

R	PERFECTION ELEC. PRODUCTS CO., THE. Information withheld.	
D	REYNOLDS ALUMINUM CO., THE. Information withheld.	

NILES, TRUMBULL COUNTY, OHIO

YY	AM. TIRE CORP. CORP., THE. Wm. Dall, V. P. G. M. P. A.; H. W. Lantz, Ch. Engr.; Oscar Knair, Supt.	
QQ	BOSTWICK STEEL LATH CO., THE. W. G. Hurlburt, Pres.-G. M.-P. A.; W. G. Hurlburt, Jr., Sec.-Treas.-P. A.; R. L. Sanderson, Supt.	
G-JJ	BRIER HILL STEEL CO., THE (Thomas Wks.) Jas. H. Grose, Pres.; Chas. B. Cushwa, Gen. Mgr.; Edw. Holloway, Supt.; C. A. Ilgenfritz, P. A.	M. O. Youngstown, Ohio
G-JJ	CARNEGIE STEEL COMPANY. Main Office and Purchasing Dept., Pitts., Pa. Other information withheld.	
G-JJ	FALCON STEEL CO., THE. W. W. Lewis, Gen. Supt.; R. Grove, Ch. Engr.; Edw. McMara, P. A.	Warren Ave.
GG-K	KENNEDY-REITER MFG. CO., THE. Information withheld.	
G	MAHONING VALLEY STEEL CO. J. D. Waddell, Pres.-G. M.; M. A. Jones, P. A.	
M-G	NILES FORGE & MFG. CO., THE. A. F. Swaney, Pres.-G. M.; Wm. James, P. A.; Saml. Chidister, Supt.	Grant St. (Sl. End)
R-XX	NILES GLASS DIV. NATIONAL LAMP WKS. OF GENERAL ELECTRIC CO. (Send all mail to Bulb and Tubing Dept., Cleveland, O.) M. G. McMahon.	M. O. Schneectady, N. Y.
G-ZZ	NILES IRON & STEEL ROOFING CO. Information withheld.	
G-JJ	NILES STEEL PROD. CO., THE. J. E. Fitzgerald, Pres.-Treas.; A. E. Quere, Gen. Mgr.-P. A.; D. W. Thomas, Supt.	
QQ	OHIO GALVANIZING & MFG. CO., THE. A. J. Bentley, Pres.-P. A.; F. F. Bentley, Wks. Mgr.	
G-JJ	REP. IRON & STEEL CO., THE (Niles Wks.) (See M. O. Youngstown, Ohio.)	N. Main St
C	STANDARD BOILER AND PLATE IRON CO., THE. D. J. Finney, Pres.-Treas.; C. W. Finney, V. Pres.-Secy.-Prod. Mgr.; W. R. Gilbert, Gen. Mgr.-Fcty. Mgr.-Pur. Agt.; L. C. Campbell, Ch. Engr.; J. W. Mathews, Gen. Supt.; G. R. Gilbert, Asst. Pur. Agt.-Sales Mgr.; O. C. Evans, Truffie Mgr.	
K	STANLEY WKS., THE R. M. Smith, G. M.-Supt.; D. L. Lewis, P. A.	M. O. New Britain, Conn.

<i>NILES, TRUMBULL COUNTY, OHIO</i>		
Class	Firm and Personnel	Address
GG	STEVENS METAL PROD. CO., THE. W. H. Stevens, Pres.-Treas.; E. D. Thompson, Secty.-Mgr.-P. A.; Frank Heams, Supt.	
QQ	SYKES METAL LATH & ROOFING CO. Ira A. Thomas, Pres.-P. A.; F. J. Thomas, Gen. Mgr.; Harry Schaeffer, Supt.	
D	WILSON MFG. CO., THE. W. A. McClelland, V. P.-P. A.-Supt.	100 Erie St.
S	YOUNGSTOWN STEEL CAR CO., THE. Wm. Wilkoff, Pres.; L. A. Lenhart, V. P.-G. M.; L. C. Wilkoff, Treas.; Wm. Kerr, P. A.; A. M. Domke, Gen. Supt.	
<i>NORTH BALTIMORE, WOOD COUNTY, OHIO</i>		
DD-H-X	FRANCE FOUNDRY & MACHINE CO., THE. Information withheld.	
DDD	SHARP SIGNAL COMPANY. Information withheld.	
SS	TRACTION MACHINE CO., THE. M. F. Leathers, Pres.; L. W. Fetzer, V. Pres.; L. A. Krupp, V. Pres.-Gen. Mgr.-Ch. Engr.; C. G. Nigh, Secy.-Treas.; O. B. McKenna, Pur. Agt.	
<i>NORTH FAIRFIELD, HURON COUNTY, OHIO</i>		
RR	FAIRFIELD PLOW WORKS. Information withheld.	
<i>NORTH KINGSVILLE, ASHTABULA COUNTY, OHIO</i>		
K	CRANDALL BROS. H. I. Crandall, G. M.	
<i>NORWALK, HURON COUNTY, OHIO</i>		
G-JJ	CRUCIBLE STEEL CO., OF AMERICA. C. W. Stroup.	
NN	F. R. X. MFG. CO., THE. M. L. Dunbar, Pres.; Eugene Englert, Secy.-Treas.	
AA-DD	FREDERICK MACHINE WKS. Charles L. Frederick, Prop.	Foster Ave. & N. Y. C. R. R.
YY	MAPLE CITY RUBBER CO., THE. C. V. Martin, Pres.-Treas.; W. G. Broughton, Secy.	
DD-E-GGG	NORWALK AUTO PARTS CO. E. D. Shearman, Pres.; S. H. Penfield, V. Pres.; A. E. Linendoll, Secy.-Gen. Mgr.; R. J. Barrows, Treas.; R. Reddick, Ch. Engr.; R. E. Peat, Gen. Supt.	
B	NORWALK DRILLING TOOL CO., THE. James Kavanaugh, Pres.; E. G. Martin, Secy.-Treas.	
H-X	NORWALK FOUNDRY CO., THE. Thomas Davis, Pres.; A. B. Hamilton, Secy.-Treas.	
DD-II	NORWALK TOOL COMPANY. Information withheld.	
<i>OAKHARBOR, OTTAWA COUNTY, OHIO</i>		
XX	LIBERTY CUT GLASS WORKS. Information withheld.	

OAK HILL, JACKSON COUNTY, OHIO

Class	Firm and Personnel	Address
TT	OAK HILL FDY. & MCH. WKS. W. E. Dole, Pres.-Gen. Mgr.-Pur. Agt.; E. Dole, Secy.-Treas.; W. E. Dole, Jr., Fcty. Mgr.; C. E. Whitt, Master Mech.	
DD	SCHRADER & KENT MACHINE CO. Information withheld.	

OBERLIN, LORAIN COUNTY, OHIO

SS	OHIO ROAD MACHINERY CO., THE. J. C. Smith, Receiver.	
----	--	--

ORRVILLE, WAYNE COUNTY, OHIO

H-X	HAGAN FDRY. CORP.N. Main St.—Wks. Pittsburgh, Pa. J. M. Hopewood, Pres.; F. B. Hooper, V. P.-Gen. Mgr.; J. E. Vollmer, Supt.	
H-K-X	LAY-VAL BRASS CO. A. J. Vallee, Partner; J. B. Blais, Partner.	
E-QQ	OHIO BODY & BLOWER CO.N. Main St. (Gen. Offices Cleveland, O.) D. K. Swarthout, Pres. (Cleve., O.); H. H. Lind, V. P.-Treas.-Gen. Mgr., Cleve., O.); W. E. Clement, Secy. (Cleve., O.); H. Rohan, P. A. (Cleve., O.); H. J. Mastenbrook, Supt.; H. C. Miller, Prod. Mgr.	
B-C	SANDERSON-CYCLONE DRILL CO., THE. R. S. Sanderson, Pres.-G. M.; W. C. Myers, P. A.; H. L. Marty, Supt.; A. J. Rosenbaum, Ch. Eng.	
B-F-H-X-EE	WILL-BURT CO., THEN. Main St. B. G. Cope, Pres.-G. M.; H. Simon, Supt.; A. P. Heimann, P. A.	

PAINESVILLE, LAKE COUNTY, OHIO

B	COE MFG. COMPANY, THEBank St F. W. Milbourn, Pres.-G. M.; W. H. Collier, V. P.; A. J. Vance, Secy.-P. A.; E. D. Heartwell, Treas.	
H-X	LAKE ERIE FDRY. CO., THERichmond St. F. M. Wyss, Pres.-G. M.; R. G. Horsburg, V. P.; W. J. Feth, Secy.-P. A.; T. B. Horsburg, Treas.	
F	LEWIS, OSCAR (Prop.)Maiden Lane	
H-X	LIGHT ALLOYS CO., THEStage St. Norman Craig, Pres.-Gen. Mgr.; J. F. McCashen, V. Pres.-Treas.; H. B. McGraw, Secy.; James Moffatt, Fcty. Mgr.-Pur. Agt.; Wm. R. Mample, Gen. Supt.; C. C. Harmon, M. M.	
QQ	OHIO MFG. COMPANYCor. State & Sanford Sts. H. A. Post, Prop.-Supt.	
K	PAINESVILLE METALLIC BINDING CO., THE. P. K. Smith, Pres.-P. A.; W. F. Smith, V. P.; C. J. Alden, Sec.-Treas.-Sales Mgr.	

PERRYSBURG, WOOD COUNTY, OHIO

	AMERICAN NATIONAL CO., THE.M. O. Toledo, Ohio Information withheld.	
--	---	--

PIQUA, MIAMI COUNTY, OHIO

B-MM	CHAMPION CUTTER & FIXTURE CO. J. E. Bryan, Pres.-Sales Mgr.; A. H. Boyer, V. Pres.; C. L. Hinch, Sec.-Treas.-G. M.-P. A.	
H-X	CHAMPION FOUNDRY CO., THE. J. E. Bryan, Pres.-G. M.-P. A.; C. Foster Stickler, S. T.; E. Sheaf, Fcty. Mgr.	
GGG	FAVORITE STOVE & RANGE CO., THE. Stanhope Boal, Pres.; E. W. Lape, V. Pres.-Treas.; L. M. Frigge, Secy.; Chas. C. Jelleff, Gen. Mgr.-Fcty. Mgr.-Pur. Agt.; Chas. Ashton, Ch. Engr.; John H. Frecker, Gen. Supt.; Geo. Henry, Master Mech.	

<i>PIQUA, MIAMI COUNTY, OHIO</i>		
Class	Firm and Personnel	Address
B	FRENCH OIL MILL MCHY. CO., THE. A. W. French, Pres.-G. M.; J. W. Brown, V. Pres.; W. Cook Rogers, Secy.-Treas.; C. B. Upton, Fcty. Mgr.-P. A.-Sales Mgr.	
E	METEOR MOTOR CAR CO., THE. Maurice Wolfe, Pres.-G. M.-Fcty. Mgr.; J. L. Boyer, V. Pres.; Arnot Boyer, S.-T.-Prod. Mgr.; J. C. Geyer, Pur. Agt.; J. L. Purdy, Sales Mgr.	
B-DD-II	MIAMI MACHINE COMPANY. J. L. Hershy, Prop.-Sec.-Treas.-Gen. Mgr.; L. B. Hershy, Prop.-Pur. Agt.	
	PIONEER POLE & SHAFT CO. H. D. Hartley, Pres.-G. M.; W. A. Snyder, Ch. Exec. Board; J. H. Smith, V. Pres.; G. A. Lambert, V. Pres.; F. E. D. Keplinger, V. Pres.; W. W. Edge, Secy.-Treas.; W. C. Hamilton, Fcty. Mgr. (Piqua Plant). Branch Plant at Sidney, Ohio.	
	PIQUA HANDLE & MFG. CO., THE. Wm. Cook Rogers, Pres.-G. M.; A. M. Leonard, V. Pres.; C. H. Barnett, Secy.-Treas.-Sales Mgr.; C. A. Ross, Fcty. Mgr.; C. U. Upton, Gen. Supt.; W. B. Unkefer, Pr. Agt.	
D	WOOD SHOVEL & TOOL CO., THE. W. W. Wood, 3rd., Pres.-Treas.-G. M.; C. C. Procter, Secy.-Fcty. Mgr.-P. A.; M. H. Lytle, Prod. Mgr.; F. C. Brandenburg, Gen. Supt.; C. L. Butts, Sales Mgr.	
<i>PLYMOUTH, RICHLAND COUNTY, OHIO</i>		
K-S-TT	FATE-ROOT-HEATH CO., THE. J. A. Root, Pres.; C. E. Heath, V. P.-G. M.-P. A.; P. H. Root, Secty.; H. R. Sykes, Treas. F. B. Carter, Ch. Engr.	
<i>POMEROY, MEIGS COUNTY, OHIO</i>		
DD	CRAWFORD, JOHN M. John M. Crawford, Prop.	
<i>PORT CLINTON, OTTAWA COUNTY, OHIO</i>		
	MATTHEWS COMPANY, THE. S. J. Matthews, Pres.-G. M.-Fcty. Mgr.; J. C. Thorn, V. P.; George A. Tine, Sec.-Treas.; C. S. Matthews, Ch. Engr.; S. J. Miller, P. A.; B. E. Frederici, M. M.	
R	NATIONAL RETARDER CO., THE. Information withheld.	
YY	OHIO STATE RUBBER TIRE CO., THE. Information withheld.	
<i>PORTSMOUTH, SCIOTO COUNTY, OHIO</i>		
DD-II-R	MONRAD ENGR. CO., THE. A. L. Monrad, Pres.-Gen. Mgr.; J. A. Schramm, V. Pres.-Pur. Agt.; O. A. Monrad, Secy.-Treas.	915 Fourth St.
GGG	OHIO STATE STOVE CO., THE. Information withheld.	
GGG	PORTSMOUTH STOVE & RANGE CO., THE. F. V. Knauss, Pres.-G. M.-P. A.; John B. Knauss, V. P.-Treas.	
C-V	RELIABLE TRACTOR & ENGINE CO., THE. C. Heer, Pres.-G. M.; B. H. Dillon, V. P.; M. Heer, Sec.-Treas.; J. B. Green, Ch. Engr.; V. R. Tufts, Fcty. Mgr.-P. A.	Spring Lane
H-X-DD	SIMPSON BROTHERS. J. E. Simpson, Prop.-G. M.; Paul C. Snyder, P. A.	2204 Gallia St.
GG	WHITAKER, GLESSNER CO., THE. Information withheld.	
DD-II	WOLFORD MACHINE CO. C. O. Massa, Pres.; M. K. Newman, V. Pres.; D. E. Newman, Secy.; F. A. Lilly, Treas.; George Wolford, Gen. Mgr.	729 5th St.



**TWIST DRILL
COMPANY
CLEVELAND**
NEW YORK · CHICAGO · LONDON

**A Broken Tang Does Not Spoil A Drill.
Ask About "Perfect Double Tang" Sockets.**

PROSPECT, MARION COUNTY, OHIO

Class	Firm and Personnel	Address
C-NN-E	PROSPECT MFG. CO., THE A. E. Johnson, Pres.-Treas.; A. F. Wottring, V. P.; H. E. Thomas, Secty.-P. A.; S. L. Wottring, G. M.-Fcty. Mgr.	South Elm St.

RAVENNA, PORTAGE COUNTY, OHIO

XX	ALBRIGHT, J. E. COMPANY. J. E. Albright, Gen. Mgr.-Pur. Agt.; B. F. Fleishman, Gen. Supt.	
P-CC-Z	BROWNING CO., THE Robt. S. Keppie, Supt.	Main Office, Cleveland, O.)
P-CC-Z	BYERS JOHN F. MACHINE, CO., THE. H. C. Beckwith, Gen. Mgr.-P. A.; R. D. Matteson, Gen. Supt.; Henry Jones, Asst. Supt.	
EE	CREQUE, S. A. S. A. Creque, Prop.	125 Spruce St.
K	DONNELLY MFG. CO., THE. P. J. Donnelly, Pres.-G. M.-Fcty. Mgr.-P. A.; A. D. Robinson, V. Pres.; J. S. Yeends, Secy.; J. R. Chapman, Treas.	
ZZ	JONES BROS. STRUCTURAL STEEL CO., THE. J. A. Jones, Pres.-P. A.; G. G. Jones, V. P.-Gen. Supt.; B. F. Jones, Sec.-Treas.-Engr.-Supt.; W. R. Jones, Gen. Mgr. Fcty. Mgr.	
R	MANHATTAN ELECT. SUPPLY CO. Walter Mann, Supt.	Br. New York City
H-X-DD	PERFECTION PISTON RING CO., THE. Albert Jones, Supt.	
GGG-QQ	RAVENNA FURNACE & HEATING CO., THE. J. F. Babcock, Pres.; P. L. Frank, V. Pres.; Albert Dietrich, Sec.-Treas.-G. M.-P. A.-S. M.; Dan J. Harris, Fcty. Mgr.-Gen. Supt.; J. L. Heller, Master Mech.; J. F. Dietrich, Asst. P. A.	
E	RIDDLE MFG. CO., THE. G. H. Robinson, Gen. Mgr.-P. A.; H. W. Riddle, Jr., Supt.; B. L. Le Roy, Ch. Engr.	
	WILLIAMS, A. C. CO., THE. Harry Cole, Supt.	

READING, HAMILTON COUNTY, OHIO

	NIVISON-WEISKOPF CO., THE Information withheld.	M. O. Cincinnati, O.
--	---	----------------------

RIPLEY, BROWN COUNTY, OHIO

D-H-X-DD	RIPLEY FOUNDRY & MCH. CO., THE. W. L. Russell, Pres.-Treas.-Pur. Agt.; R. L. Russell, V. Pres.-Gen. Mgr.; H. L. Russell, Secy.	Front St.
----------	--	-----------

ROSEVILLE, MUSKINGUM COUNTY, OHIO

D-N	PEMBERTON-SETTLE CO. T. O. Pemberton, Pres.-Treas.-G. M.-Supt.; K. D. Smith, V. P.-Fcty. Mgr.-P. A.; T. O. Pemberton, Sales Mgr.	
XX	LOWERY, F. S. POTTERY CO. Curtis W. Lowrey, Prop.	

ROSSFORD, WOOD COUNTY, OHIO

XX	FORD, EDWARD, PLATE GLASS CO., THE. Information withheld.	
----	---	--

<i>SABINA, CLINTON COUNTY, OHIO</i>		
Class	Firm and Personnel	Address
DD	ANDRES, G. W. & SON. G. W. Andres, Prop.	
NN	CLINTON MFG. CO. Information withheld.	
<i>ST. BERNARD, HAMILTON COUNTY, OHIO</i>		
H-X	IDEAL MATCH PLATE & FOUNDRY CO. Information withheld.	
F	IDEAL PATTERN WORKS. Robert Schlegel, Prop.	
DD-II-AA	KOEHLER MFG. COMPANY. Information withheld.	
<i>SAINT MARY'S, AUGLAIZE COUNTY, OHIO</i>		
HH	AMERICAN CHAIN CO., THE. Information withheld.	
C	BOOS OIL ENGINE CO., THE C. W. Schmehl, Pres.-Treas.; A. C. Buehler, V. Pres.; W. H. Gillett, Secy.-Gen. Mgr.-Sales Mgr.	South & Pine Sts.
E	CRANE & McMAHON. Information withheld.	
BB-I-K-R	JASPERSEN SUPPLY CO., THE Wm. Jaspersen, Pres.-Gen. Mgr.; F. M. Smith, Secy.-Treas.-P. A.	114 E. Spring St.
B-WW	QUICKWORK CO., THE. H. Collier Smith, Pres.-G. M.-Ch. Engr; A. F. Smith, V. P.-Treas.; H. E. Grove, Secty.-P. A.	
K-H-X	REGENT BRASS FOUNDRY CO., THE. Geo. W. Fischer, Pres.; Sidney L. Fisher, V. P.-P. A.-G. M.; Wm. J. Hofer, Gen. Supt.	
<i>SALEM, COLUMBIANA COUNTY, OHIO</i>		
RR	ACME CULTIVATOR CO., THE. Information withheld.	
G-JJ-N	AMERICAN STEEL & WIRE CO., THE T. J. Rossiter, G. M.-Supt.	Mill St. (M. O. Cleveland, O.)
A-B-WW	BLISS, E. W. COMPANY CO., INC. A. B. Haslam, G. M.; W. F. Cosgrove, P. A.; W. F. Vaughan, Ch. Engr.; W. W. Baillie, Supt.	Salem Wks.—(M. O. Brooklyn, N. Y.)
NN	DEMING CO., THE Wm. L. Deming, Pres.-G. M.; F. J. Emeny, Ch. Engr.; J. B. Garber, Supt.; R. R. Miller, P. A.	Depot St.—also Chicago, Ill.
BBB	ELECT. FURNACE CO., THE T. F. Baily, V. P.; E. G. Ernst, Treas.-G. M.; F. T. Cope, Ch. Engr.; J. P. Conway, P. A.; G. P. Lozier, Shop Supt.	M. O. Alliance, Ohio.
F	JESSUP, STEPHEN C. PATTERN WORKS S. C. Jessup, Prop.	Roosevelt Ave.
E	MULLINS BODY CORP. H. C. Nelson, Gen. Mgr.; Gordon Keyes, Ch. Engr.; J. H. Blackburn, P. A.; A. T. Richmond, Supt.	Depot St.
XX	NATL. SANITARY CO., THE. Fred H. Snyder, Pres.; J. Fred Coxon, V. P.; R. A. Lamont, Jr., Sec.-Treas.-P. A.; Phil Leider, Gen. Supt. (Salem).	
H-X-DD	PITTSBURG FDRY. & MACHINE CO. H. Ball, G. M.-Supt.	Wilson St.—M. O. Pittsburg, Pa.
XX	SALEM CHINA COMPANY, THE. F. H. Sebring, Jr., Pres.; F. W. McKee, Sec.-Treas.-G. M.-P. A.	
DD-B	SALEM TOOL CO., THE H. S. Wilson, Pres.-Supt.; J. H. Wilson, Secty.-P. A.; H. L. Weikart, Supt.	Depot St.

Who?

Est. 1906

HIGH CLASS EMPLOYMENT SERVICE

INTERSTATE BUSINESS EXCHANGE

MAIN 3629 658 ROSE BUILDING CLEVELAND

FOR

Executives, Engineers,
Draftsmen, Salesmen,
Office Men and Women

SALEM, COLUMBIANA COUNTY, OHIO

Class	Firm and Personnel	Address
A-RR-B	SILVER MFG. CO., THE. E. W. Silver, Pres.-G. M.; H. M. Silver, V. P.-Supt.; A. O. Silver, Treas.; P. B. Tucker, P. A.	
GGG	VICTOR STOVE CO., THE. C. C. Gibson, Pres.; C. E. Sweney, V. P.-G. M.-Supt.-P. A.; W. A. Brown, Sec.-Treas.-Sales Mgr.	

SALINEVILLE, COLUMBIANA COUNTY, OHIO

DD	RICE, JOHN. John Rice, Prop.	
----	--	--

SANDUSKY, ERIE COUNTY, OHIO

H-X	BAY VIEW FOUNDRY COMPANY	125 McDonough St.
	E. Lea Marsh, Pres.-Treas.; A. J. Wentworth, V. Pres.; F. J. Harten, Secy.-Asst.-Treas.	
U-M-D	BRIGHTMAN NUT & MFG. CO.	Tiffin Ave. and Broadway.
	Frank Stang, Pres.; Wm. F. Senn, Gen. Mgr.-Pur. Agt.; John Alton, Prod. Mgr.; E. T. Holt, Gen. Supt.	
H-X-Y	BROWN CLUTCH CO., THE	1737 So. Camp St.
	T. J. Morgan, Pres.-Treas.-P. A.; John Feick, V. P.; J. A. Speiker, Secty.;	
	C. W. Hattmon, Gen. Supt.	
VV	EASIEST WAY MFG. CO., THE	W. Adams & Harrison Sts.
	J. F. Donahue, Pres.-Treas.-Gen. Mgr.; C. Faber Donahue, V. Pres.-Pur. Agt.;	
	C. Webb Sadler, Secy.	
H-X	FARRELL CHEEK STEEL FDY. CO.	
	Herbert Farrell, Pres.; J. O. Cheek, V. Pres.; J. E. Sweet, Secy.; R. C. Farrell, Treas.;	
	A. S. F. Blackwood, Gen. Mgr.; F. P. Murschel, Prod. Mgr.; John Hengle, M. M.;	
	H. Wagner, Pur. Agt.	
H-X	G. & C. FOUNDRY CO., THE	Monroe S. & Big Four R. R.
	M. F. Gartland, Pres.; J. J. Carroll, V. P.; F. Gartland, Secty.; J. C. Haswell, Treas.;	
	J. E. Carroll, G. M.-P. A.; L. Newcomb, Gen. Supt.	
B-H-X-DD	KLOTZ MACHINE COMPANY	318 Water St.
	A. H. Klotz, Prop.	
NN	LATHAM & COMPANY	34 W. Adams St.
	F. S. Latham, Gen. Mgr.	
ZZ	MACK IRON & WIRE WORKS	124 Warren St.
	J. D. Mack, Pres.-Treas.; B. F. Mack, V. P.; H. V. Freeman, Secy.-Asst. Treas.	
E	MAIBOHM MOTORS COMPANY	W. Monroe St.
	W. J. Corr, Mgr.-For-Creditors.	
R-RR	MATTHEWS ENGINEERING CO., THE	Monroe St.
	J. W. Wellington, Pres.-Gen. Mgr.; M. C. Cosgray, Secy.-Treas.; J. E. Tom, Ch. Engr.;	
	F. C. Mueller, Gen. Supt.; E. A. Weichel, Pur. Agt.	
QQ	MERTZ, J. MFG. CO.	Water & Decatur St.
	John Mertz, Pres.; Franklin D. Hohler, Secy.-Treas.	
F	NATIONAL PATTERN COMPANY	318 W. Water St.
	F. J. Grathwal, Pres.; R. F. Myers, V. Pres.; Art Helmrich, Secy.	
R	RADIANT MFG. CO., THE	Water & Perry Sts.
	J. W. Wellington, Pres.; M. C. Cosgray, V. Pres.; Harry S. Hill, Secy.-Treas.	
C	ROBERTS MOTOR CO.	131 E. Arthur St.
	E. R. Johnson, Mgr.	
G-LL	SANDUSKY FDRY. & MCH. CO., THE	Cor. Mkt. & Fulton Sts.
	W. H. Millsbaugh, Pres.; W. C. Boyle, V. P.-P. A.; D. Lake, Sec.-Treas.-Fcty. Mgr.-Sales;	
	H. R. Farnsworth, Ch. Engr.; R. S. Latimer, Gen. Supt.	
U	SANDUSKY NUT COMPANY	122 Lawrence St.
	Oliver Brace, Gen. Mgr.; Wm. B. Moon, Fcty. Mgr.	
K	SANDUSKY PACKLESS VALVE CO.	1209 W. Adams St.
	Roy D. Mitchell, Pres.; Sidney Frohman, V. Pres.; Hiland R. Farnsworth, Secy.;	
	Ralph T. Bradbeer, Treas.	

SANDUSKY, ERIE COUNTY, OHIO		
Class	Firm and Personnel	Address
MM-II-U	SANDUSKY TOOL COMPANY Mozart Gallup, Pres.; Wm. L. Allendorf, V. P.; Otto C. Holzaepfel, Sec.-Treas.-P. A.-G. M.; Wm. Lorenzen, Fcty. Mgr.-Gen. Supt.; Henry W. Martin, M. M.	146 Meigs
VV	SANDUSKY WASHER CO., THE N. P. Lauritzen, Pres.-Gen. Mgr.; Florence R. Lauritzen, V. Pres.	501 E. Market St.
SEBRING, MAHONING COUNTY, OHIO		
DD-II	HALL MACHINE COMPANY J. F. Hall, Prop.-G. M.-P. A.-Supt.; Thos. Barclay, M. M.	East Ohio Ave.
XX	LIMOGES CHINA CO., THE W. I. Cahris, Pres.-G. M.	
L-TT	SEBRING ENGINEERING CO. Frank Dietz, Treas.; B. H. Bucher, G. M.-Ch. Engr.-P. A.; L. D. Rubert, Fcty. Mgr.	
SEVILLE, MEDINA COUNTY, OHIO		
XX	SEVILLE PORCELAIN CO. Fred D. Lowrey, Pres.; J. Frank Maloy, V. P.; R. L. Landis, Sec.-Treas.-P. A.; Fred H. Criner, Gen. Mgr.-Supt.	
Y-Z-HH	UNION CHAIN & MFG. CO., THE A. A. Bostwick, Pres.; Walter Hay, V. P.-G. M.-P. A.; W. C. Brumbaugh, Sect.-Treas.; C. E. Morey, Gen. Supt.	
SHELBY, RICHLAND COUNTY, OHIO		
DDD	AUTOCALL COMPANY, THE W. W. Van Horn, Pres.; Howard D. Seltzer, V. Pres.-Gen. Mgr.-Fcty. Mgr.; C. C. Skiles, Secy.; Roy Van Wagner, Treas.; S. L. Cramer, Prod. Mgr.-Gen. Supt.-P. A.	
UU	BEWSICK ROUND FABRIC BELTING CO., THE H. K. Beck, Pres.; Jas. A. Brubaker, V. Pres.; Arthur F. Johnson, Secy.-Treas.-P. A.; W. W. Bewsick, Gen. Mgr.-Fcty. Mgr.	
	CHICAGO HANDLE BAR CO., THE Information withheld.	
G-JJ-LL	OHIO SEAMLESS TUBE CO. A. C. Morse, Pres.; Geo. L. Reichert, Secy.-Treas.	
B-DD-II	SHELBY MCH. & TOOL WORKS. Information withheld.	
D-K	SHELBY METAL PRODUCTS CO., THE A. R. Fish, Pres.; C. C. Fish, V. P.-G. M.; L. N. Hoffman, Sec.-Treas.-P. A.	110 N. Broadway St.
K	SHELBY SPRING HINGE CO. W. W. Steele, Pres.; J. A. Seltzer, Secy.; L. D. Malone, Treas.	
RR-V	SHELBY TRACTOR & TRUCK CO. O. J. Bready, Pres. Gen. Mgr.; M. B. Monu, V. Pres. Treas.; C. V. Schill, Secy.; L. G. Ritchey, Ch. Engr.; L. A. Smith, Gen. Supt.	
N	SHELBY WIRE CO., THE S. I. Armbruster, Pres.; J. E. Armbruster, Secy.-Treas.	
SHREVE, WAYNE COUNTY, OHIO		
DD	SHREVE GARAGE & MCH. CO. Milo Spang, Prop.	
	WOOSTER BRUSH CO., THE	(See Wooster, Ohio)
SIDNEY, SHELBY COUNTY, OHIO		
SS	AMERICAN STEEL SCRAPER CO., THE W. H. C. Goode, Pres.; D. Oldham, V. Pres.-Secy.; W. E. Kilborn, Treas.-Gen. Mgr.; C. E. Betts, Pur. Agt.	Court St. & Wilkinson Ave.

Main Office and Showroom: 717 LAKESIDE AVE. N.W.

SIDNEY, SHELBY COUNTY, OHIO

Class	Firm and Personnel	Address
RR	BUCKEYE CHURN CO., THE. James Anderson, Pres.; T. F. Anderson, Secy.; L. B. Anderson, Treas.	
DD-B	ECLIPSE MACHINE CO., THE. L. M. Studevant, Pres.; W. C. Horr, Secy.-Gen. Mgr.; Thos. F. Studevant, Fcty. Mgr.	
H-X	G. & H. FOUNDRY CO? Information withheld.	
B	MENTGES FOLDER CO., THE George Mentges, Pres.; Fred Mentges, V. Pres.-Gen. Mgr.-Pur. Agt.; Wm. O. Blake, Secy.-Treas.-Asst. Pur. Agt.; John Mentges, Gen. Mgr.-Ch. Engr.	Oak & Poplar Sts.
A-B	MONARCH MACHINE TOOL CO., THE. I. H. Thedieck, Pres.; W. H. Wagner, V. Pres.; W. E. Whipp, Secy.-Treas.-Gen. Mgr.; Al. Jennings, Fcty. Mgr. Supt. Fred D. Dickas, Ch. Engr.; Carl F. Beger, Pur. Agt.	
B	PEERLESS BREAD MACHINE CO., THE. E. J. Griffis, Pres.-F. X. Lauerbur, Secy.-Treas.	
A-B	SIDNEY MACHINE TOOL CO., THE. I. H. Thedieck, Pres.; A. C. Getz, Secy.-Treas.	
E	SIDNEY MFG. CO., THE I. H. Thedieck, Pres.; L. M. Studevant, V. Pres.; A. A. Gerlach, Secy.-Treas.-P. A.; W. C. Horr, Gen. Mgr.; W. A. Burket, Fcty. Mgr.-Gen. Supt.; J. J. Sarver, Asst. P. A.	East Ave.
SS	SIDNEY STEEL SCRAPER CO., THE. Wm. A. Perry, Pres.-Gen. Mgr.; Ben Strauss, V. Pres.; B. D. Heck, Secy.-Treas.-Pur. Agt.	
VV	SIDNEY WASHING MACHINE CO., THE. Information withheld.	
SS	SLUSSER-McLEAN SCRAPER CO. Information withheld.	
A-B-H-X-DD	SMITH, PHILLIP MFG. CO., THE. L. M. Studevant, Pres.; R. G. Hess, Secy.; H. K. Hess, Treas.	
SS-ZZ	TOY, W. M. & CO. Information withheld.	
H-X	WAGNER MFG. CO., THE. W. H. Wagner, Pres.-Sales Mgr.; B. P. Wagner, V. P.; L. R. Wagner, Secy.-G. M.-Asst. P. A.; M. M. Wagner, Treas.-P. A.	
A-B	WHIPP MACHINE TOOL CO., THE. W. E. Whipp, Pres.; W. C. Horr, Secy.; P. C. Pocock, Treas.	

SPENCER, MEDINA COUNTY, OHIO

	MONOSMITH BROS. CO., THE. Information withheld.	
DD-E	SPENCER METAL PRODUCTS CO., THE. T. B. Allison, Pres.; J. B. Firestone, V. Pres.; C. H. Burk, Secy.-Treas.; J. B. Childe, Trustee; L. E. Dilts, Engr., Pur. Agt.; Otto Kuepfer, Gen. Supt.	

SPRINGFIELD, CLARK COUNTY, OHIO

RR	AMERICAN SEEDING MCH. CO. T. C. Johnson, Pres.; L. C. Buchwalter, V. Pres.; R. S. Rogers, Secy.; B. J. Westcott, Treas.	
H-X-K	AMERICAN RADIATOR CO. Henry Dyers, Supt.	1310 W. Main St.
H-X	ARMSTRONG MFG. CO. W. C. Armstrong, Prop.	
B-RR	BAUER BROTHERS COMPANY. C. L. Bauer, Pres.; L. E. Bauer, V. Pres.; W. A. Bauer, Treas.; W. E. Capenhaver, Secy.	
C	BAUROTH BROS. W. F. Bauroth, Prop.; Emil Bauroth, Prop.	
QQ-ZZ	BAYLEY, WILLIAM CO., THE Wm. Bayley, Pres.; W. D. Bayley, V. Pres.; A. G. Dey, Secy.; Lee Bayley, Treas.	W. North St.

SPRINGFIELD, CLARK COUNTY, OHIO

Class	Firm and Personnel	Address
F	BOBLETT, J. C. (Prop.)	135 E. Liberty St.
UU	BRETNEY, H. V. CO., THE. H. V. Bretney, Pres.-Gen. Mgr.; R. B. Miller, Treas.	
	BUCKEYE INCUBATOR CO. Geo. Cugley, Pres.; A. R. Hill, V. Pres.; R. Cartwell, Secy.; J. B. Clingerman, Treas.	
SS	BUFFALO-SPRINGFIELD ROAD ROLLER CO. C. M. Greiner, Pres.; C. J. Foster, V. Pres.; A. W. Aitken, Chief Engr. Supt.	
H-X-K	CENTRAL BRASS & FIXTURE CO. P. P. Crabill, Pres.; Jas. Turner, Treas.-Gen. Mgr.	
B	CORKSCREW MACHINE CO. D. H. Clark, Prop.	330 Jackson St.
F	DEARDS, W. C. (Prop.)	51 Main St.
D	DOWNEY, W. C. & CO. W. C. Downey, Prop.	
B-DD	EAGLE ENGR. CO. E. Craig, Pres.; F. A. Pfeifer, V. Pres.-Gen. Mgr.; W. W. Ellsworth, Secy.-Treas.	Bell & W. Main St.
RR	EXCELSIOR DRILL COMPANY. Chas. S. Judson, Gen. Mgr.	
H-X	FAIRBANKS CO. M. L. Milligan, Pres.; N. H. Fairbanks, V. Pres.-Gen. Mgr.; H. E. Strimmel, Secy.	
C	FOOS GAS ENGINE CO. H. C. Blake, Gen. Mgr.	
H-X	FRENCH & HECHT CO. W. H. Stackhouse, Mgr. L. Cotter, Gen. Supt.	
H-X	GRAY IRON CASTING Wm. Bayley, Pres.; W. D. Bayley, V. Pres.; G. D. Bayley, Sales.	140 W. North St.
EE	HOME WELDING CO. H. C. Skyler, Prop.; S. Dinkel, Prop.	126 W. High St.
NN-K	HOPPES MFG. CO. Jno. J. Hoppes, Pres.; J. F. Ware, V. Pres.; G. Coblenz, Secy.-Treas.	
S	INDIANAPOLIS SWITCH & FROG CO. W. C. Fairbanks, Pres.; E. C. Price, V. Pres.-Gen. Mgr.; T. L. Hanley, Chief Engr.	
RR	INTERNATIONAL HARVESTER CO. C. H. Smart, Gen. Supt.	
H-X	KELLY, O. S. & CO. O. W. Kelly, Pres.; E. S. Kelly, V. Pres.	
E	KELLY SPRINGFIELD MOTOR TRUCK CO. J. L. Geddes, Pres.; M. McMillan, V. Pres.; P. H. Diehl, Secy.	
K-X-H	LAGONDA MFG. CO. H. S. Bradley, Pres.-Gen. Mgr.; C. J. Carle, Secy.-Treas.; C. K. Bizer, Supt.	
F	LANE, C. E. (Prop.) LANE, T. J. EQUIPMENT CO., THE. T. J. Lane, Pres.-Mgr.	
BB-I-PP	LARKIN, M. D. SUPPLY CO., THE	See M. O. Dayton, O.
C-NN	LEFFEL, JAS. CO., THE. Geo. R. Prout, Pres.; A. F. Sparks, V. Pres.-Gen. Mgr.; B. F. Kauffman, Secy. & Treas.	
DD	MARTIN, JOHN E. (Prop.)	548 W. State St.
NN-C	MAST FOOS CO. W. H. Rayner, Pres.; F. R. Burton, Gen. Mgr.; Ed. Hopping, Supt.	
C	MILLER IMPROVED GAS ENGINE CO. E. A. Watts, Pres.-Gen. Mgr.; H. C. Miller, V. Pres.	
VV	NATIONAL MOTOR COMPANY. R. D. Little, Prop.	
DD	OTEWALT MFG. CO. Orris G. Otewalt, Prop.	
F	PARKER PATTERN WORKS. W. F. Parker, Pres.; E. D. Parker, V. Pres.	Greenwalt Bldg.

SPRINGFIELD, CLARK COUNTY, OHIO

Class	Firm and Personnel	Address
F	PAULY BROS. J. M. Pauly, Prop.; H. C. Pauly, Prop.	
MM	RIDGELY TRIMMER CO. Henry Erter, Pres.; C. J. Bowlus, V. Pres.; J. K. Williams, Treas.	
R	ROBBINS & MYERS CO. C. F. McGilray, Pres.; W. J. Myers, V. Pres.; W. A. Myers, Secy.; H. E. Freeman, Treas.	
DD	RODGERS, GEO. G. (Prop.) -----	29 E. Muy St. l. berr
B-RR	ROSS, E. W. CO., THE. E. P. Ross, Pres.; J. K. Bell, V. Pres.-Gen. Mgr.	
AA	SAFETY EMERY WHEEL CO., THE. C. Nagel, Pres.; A. G. Spencer, V. Pres.-Gen. Mgr.; J. P. Baker, Secy.-Treas.	
E-DD-B	SHAWVER CO. C. I. Shawver, Prop.	
F-X-H	SPRINGFIELD ALUMINUM PLATE & CASTING CO. E. A. Parker, Pres.-Supt.; J. F. Hook, V. Pres.; W. J. Jordan, Secy.-Treas.	
DD-H-X	SPRINGFIELD FINISHED CASTINGS CO. T. W. Ludlow, Pres.; Grover Ilgan, V. Pres.-Gen. Mgr.	
A-B	SPRINGFIELD MCH. TOOL CO. -----	Southern Ave. & Penn R. R.
H-X	SPRINGFIELD MALLEABLE IRON CO. T. W. Ludlow, Pres.; T. R. Ludlow, Secy.-Pur. Agt.	
DD-EEE	SPRINGFIELD MILLWRIGHT CO. -----	221 W. Main St.
EE	SPRINGFIELD WELDING CO. -----	116 E. Main Street
A-B-II	STEEL PRODUCTS ENGR. CO. J. E. McAdams, Pres. & Treas.; G. E. Ireland, Gen. Mgr.; Wm. Corcoran, Supt.	
II-M-D	STERLING MFG. CO. J. N. Sterling, Prop.	
E-H-X	THE SUPER-VALVE CO. -----	Arcue Bldg.
C	SUPERIOR GAS ENGINE CO. P. J. Shourlin, Prop.	
N	SUPERIOR SPRING CO. J. L. Lloyd, Pres.; R. A. Essex, V. Pres.; B. F. Downey, Secy.; J. Sullivan, Supt.	
A-AA	THOMPSON GRINDER CO. E. S. Houck, Pres.; H. J. Warrick, Secy.; C. Baldenhofer, Treas.; Jno. A. Martin, Supt.	
W-NN	TRUMP MFG. CO. J. J. Hopper, Pres.; C. F. Jackson, V. Pres.; J. J. Zells, Secy.; J. F. Trump, Gen. Mgr.	
E	WESTCOTT MOTOR CAR CO. B. J. Westcott, Pres.; H. G. Root, Secy.-Treas.; H. Clark, Supt.	
H-X	WESTERN FDY. & MFG. CO. J. C. Howell, Pres.; H. H. Simminding, V. Pres.; C. O. Lutz, Secy.-Treas.	
M-II	WESTERN TOOL & MFG. CO. A. H. Hyde, Pres.; Henry Morris, V. Pres.-Gen. Mgr.	
H-X	WICKMAN PIANO PLATE CO. G. N. Gorsuch, Secy.-Treas.; F. J. Wickman, V. Pres.; J. C. Wickman.	
L	WOLF, E. E. (Prop.) -----	Main & Fountain Sts.
VV	YOST GEARLESS MOTOR CO. H. Barr, Pres.; B. F. Downey, Secy.	

STEUBENVILLE, JEFFERSON COUNTY, OHIO

G-S	BUCKEYE ROLLING MILL CO., THE -----	Genl. Offices—(Works, Newark, O.)
	Isaac Scott, Pres.; J. T. Sarratt, V. P.-Treas.-G. M.; C. H. Dossett, Secty.; P. W. Jones, Fcty. Mgr.-Supt.	

STUEBENVILLE, JEFFERSON COUNTY, OHIO

Class	Firm and Personnel	Address
DD	CLARK MACHINE COMPANY..... J. V. Clark, Prop.-G. M.-P. A.; B. B. Clark, Gen. Supt.	North and Commercial Streets.
G	LA BELLE IRON WKS..... D. A. Burt, Pres.; H. D. Westfall, V. P.; H. P. Beswick, Sec.-Treas.; A. J. McFarland, G. M.; R. M. Rice, P. A.; H. H. Roberts, Ch. Engr. (Wheeling); C. H. Snider, Gen. Supt. (Wheeling).	M. O. Wheeling, W. Va.
EE-DD	MAYERS, CHAS. B. Chas. B. Mayers, Prop.	
H-X-K	OHIO FOUNDRY & MFG. CO. G. E. Sharpe, Pres.; A. B. Sharpe, Secy.; W. L. Sharpe, Treas.	
XX	OHIO VALLEY CLAY CO., THE. J. W. Gill, Pres.; J. H. Gill, V. P.; George W. Cochran, Sec.-Treas.-G. M.-P. A.; W. C. Lashley, Fcty. Mgr.; R. C. Bowman, M. M.; George W. Cochran, S. M. C. M. Hollingsworth, Sales Engr.	

STRUTHERS, MAHONING COUNTY, OHIO

G	STRUTHERS FURNACE CO.....	Br. Cleveland, Ohio
---	---------------------------	---------------------

SUNBURY, DELAWARE COUNTY, OHIO

SUNBURY MFG. COMPANY.
 Information withheld.

SWANTON, FULTON COUNTY, OHIO

C-RR	BAKER, A. D. COMPANY, THE..... J. W. Crisman, Pres.; A. D. Baker, V. P.-Gen. Supt.-G. M.; F. E. Pilliod, Secty.; C. W. Crisman, Treas.-Sales Mgr.; L. R. Baker, M. M.; Saml. Zimmerman, P. A.	311 Broadway.
DD-E-K	PILLIOD CO., THE. Information withheld.	

TIFFIN, SENECA COUNTY, OHIO

	BLOOM FLUSHER CO. Information withheld.	
Y	HANSON CLUTCH & MACH. CO. Information withheld.	
V	HOLLIS TRACTOR CO. Information withheld.	
B	LOOMIS MACHINE CO., THE. G. D. Loomis, Pres.; B. Z. Good, Secy.-Treas.	
VV	MONARCH MFG. CO., THE..... F. B. Cramer, Pres.-G. M. P. A.; C. L. Walter, V. P.; J. P. Schmitz, Sec.-Treas.	Hunter St.
A-B	NATIONAL MACHINERY CO., THE. M. Frost, Pres.; E. R. Frost, Secy.; W. L. Hertzner, Treas.	
D	OHIO LANTERN CO., THE. Information withheld.	
AA	STERLING GRINDING WHEEL CO., THE. G. E. Schroth, Pres.; N. Schreiner, Secy.; G. S. Tillotson, Treas.-Gen. Mgr.	
QQ	TIFFIN ART METAL CO., THE. G. S. Kalbfleisch, Secy.-Treas.	
H-X	TIFFIN BRASS & BRONZE CO..... F. R. Miller, Pres.; C. A. Brickner, Secy.; R. H. Ebersole, Gen. Mgr.	Market St.
E-SS	TIFFIN WAGON CO., THE. G. C. Loomis, Pres.; H. C. France, Secy.-Treas.	
XX	UNITED STATES GLASS CO. Frank Beggs, Supt.	
L-H-X-Y	WEBSTER MFG. CO., THE. Information withheld.	

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

TILTONSVILLE, JEFFERSON COUNTY, OHIO

Class	Firm and Personnel	Address
XX-K	WHEELING SANITARY MFG. CO. Information withheld.	
TOLEDO, LUCAS COUNTY, OHIO		
D	ACKLIN STAMPING CO., THE G. M. Acklin, Pres.; J. M. Acklin, V. Pres. G. M.; W. C. Acklin, Secy. Treas.; F. C. Greenhill, Prod. Mgr. P. A.; D. T. Anderson, Gen. Supt.	1657 Dorr St.
GGG	ACME SPECIALTY MFG. CO., THE Adolph Schlett, Pres.-Treas.-G. M.; E. E. Braum, V. P.-Sales Mgr.; Albert Schlett, Secy.; H. J. Hanson, Fcty. Mgr.-P. A.; Walter Weiker, Gen. Supt.	2296 Smead Ave.
DD-II	ACME TOOL CO. Fritz Rundquist, Prop.; Henry F. Rundquist, Prop.	502 S. St. Clair Street.
	ALLEN FILTER COMPANY H. Wachter, Pres.; W. S. Ramsay, V. Pres.-Fcty. Mgr.-P. A.; E. P. Mull, Secy.	25 S. St. Clair St.
BB-B-R	ALLIS-CHALMERS MFG. CO. W. R. Mengel, Mgr.	Ohio Bldg.
B-RR	AMERICAN BEET HARVESTER CO. Dean Farley, Pres.; C. W. Wagoner, V. Pres.; H. Levison, Secy.; F. W. Douglass, Treas.; E. R. Thurston, Gen. Mgr.; H. C. Ronfeldt, Fcty. Mgr.-Pur. Agt.; W. H. Kopitke, Ch. Engr.	2959 Dorr St.
XX	AMERICAN BOTTLE CO., THE M. W. Jack, Pres.; W. J. Crane, V. P.-G. M.; J. P. Curran, Secty.; H. W. Seitz, Treas.-P. A.; T. W. Rose, Fcty. Mgr.	Nicholas Bldg.
D	AMERICAN CAN CO. John Blank, Supt.	City Park Ave.
CC-P	AMERICAN CRANE & ENGR. CO. C. H. Tucker, Pres.; W. F. Billingsley, V. Pres.; J. H. O'Leary, Secy.; A. L. Johnson, Treas.	507 Nashby Bldg.
B	AMERICAN FLOOR SURFACING MACH. CO., THE Wm. B. Frey, Pres.; H. H. Wolfe, Secy.-Treas.-Ch. Engr.; Wm. Cunningham, Gen. Supt.; C. W. Berger, Pur. Agt.; August B. Leibus, Asst. Pur. Agt.	518 S. St. Clair Street
	AMERICAN-NATIONAL CO., THE Wm. L. Diemer, Pres.; Henry Streetman, V. Pres.; Walter H. Diemer, Secy.; H. C. Kuney, Treas.; Paul Schibrowski, Fcty. Mgr.; W. B. Anteau, Pur. Agt.	Ketchum Ave.
LL	AMERICAN PIPE & TUBE CO. E. M. Kerlin, Prop.	Broadway & Morris
LL	AMERICAN STEEL TUBE CO. James H. Caufiel, Pres.; A. G. Huebner, V. Pres.; D. Wood Caufiel, Secy.; J. Ford Caufiel, Fcty. Mgr.-Gen. Supt.; J. Lowell Caufiel, Master Mech.	Buckeye St. and Toledo Terminal R. R.
R-E	AMERICAN SWISS MAGNETO CO. J. A. Bohannon, Pres.-G. M.; J. B. Nordholt, V. P.; W. W. Knight, Sec.-Treas.; R. P. Verber, Fcty. Mgr.-Supt.; E. B. Garrison, P. A.	1650 Fernwood, Ave.
	AMES BONNER CO., THE J. G. Mackenzie, V. Pres.-Mgr.	70 Ottawa St.
E	ANDERSON-ROBERTS MFG. CO. R. C. Roberts, Pres.; E. E. Lucas, V. Pres.; D. Anderson, Jr., Secy.-Treas.-Gen. & Fcty. Mgr. P. A.	114 Ontario St.
BB-I-K-SS-V-C	ARBUCKLE-RYAN CO., THE J. H. Ryan, Pres.-Treas.; A. H. Billstein, Secy.	222 Cherry St.
R	ARROW MFG. CO. H. Handenschild, Pres.; L. G. Pierce, Secy.-Treas.	618 Broadway
ZZ	ART IRON & WIRE WORKS Godfrey Schlatter, Mgr.	2113 Canton
AAA	ATLAS CHEMICAL CO., THE R. G. Griswold, Pres.; Alfred Johnson, V. Pres.-Gen. Mgr.; Carl W. Fischer, Secy.-Treas.; R. B. Stitzer, Ch. Engr.; E. J. O'Brient, Gen. Supt.; D. S. Gillies, Pur. Agt.	1189 W. Central Ave.
	AUSTIN MACHINERY CORP. Information withheld.	2500 Dorr St.
YY	AUTOFILLER PEN CO., THE H. W. Haslup, Pres.-Treas.	905 Jefferson St.

THE MOTT & MERRYWEATHER MACHINERY CO.

Cleveland
Cincinnati
Detroit
Pittsburgh

TOLEDO, LUCAS COUNTY, OHIO

Class	Firm and Personnel	Address
E-V	AUTOMOTIVE CORP., THE F. A. Kateley, Pres.-G. M.-Pur. Agt.; John L. Larkin, V. P.-Sales Mgr.; Wm. Hulin, S.-T.; L. H. Wyatt, Fcty. Mgr.; F. W. Kateley, Ch. Engr.	Oakdale Ave. & Tracy St.
K	AYLING & REICHERT CO., THE Paul F. Reichert, Pres.-G. M.-Fcty. P. A.; W. C. Easton, Sec.-Treas.	713-17 Utica St.
F	BAER PATTERN WKS. Alfred Baer, Prop.	1435 Dorr St.
A-B-H-X	BAKER BROS. A. E. Baker, Pres.-G. M.; R. K. Chapman, P. A.; G. E. Hallenback, Supt.-Prod.; H. M. Chilcote, M. M.	Westlake & Post Streets.
C-RR-B	BANTING MFG. CO., THE J. W. Banting, Pres.; J. F. Sanders, V. Pres.; R. K. Banting, Treas.; C. C. Banting, Secy.	114 Superior
DD-II	BAUROTH, EMIL MACHINE CO. Emil F. Bauroth, Prop.	28 So. St. Clair Avenue
FFF	BECKMAN, L. CO., THE I. L. Beckman, Pres.-Treas.; L. Beckman, Jr., Secy.-Gen. Mgr.	1004 Jackson
	BE-CO. MFG. CO., THE F. E. Bean, Pres.-Treas.; Geo. Coslett, V. Pres.; J. L. Bean, Secy.	510 Phillips
H-X	BELMONT FOUNDRY, THE L. P. Majewski, Prop.	1213 Belmont Ave.
B-D-II	BINGHAM STAMPING & TOOL CO., THE J. Bingham, Pres.-Treas.-G. M.; Wm. L. Peters, V. P.-Gen. Supt.; S. J. Bingham, Secy.; F. Clark, P. A.	1435 Dorr St.
R-BB-R	BISSELL, F. COMPANY, THE Fredrick Bissell, Pres.; W. S. Bissell, V. P.; E. B. Terry, Sec.-Treas.; S. C. Lines, Fcty. Mgr. Ch. Engr.; J. S. Huff, P. A.; B. Richardson, Asst. P. A.; Julius Bevington, Gen. Supt.	812-22 Lafayette St.
E	BOCK BEARING CO., THE R. E. Clingan, V. Pres.-Gen. Mgr.; C. G. Steinbecker, Treas.; L. W. Close, Ch. Engr.; D. McKercher, Prod. Mgr.; C. S. Smyth, Pur. Agt.	Phillips Ave. & M. C.
A-BB-I-PP	BOICE, WM. B. & J. E. Wm. B. Boice, Prop.; J. E. Boice, Prop.	114 23rd St.
BB-I-K	BOSTWICK-BRAUN CO., THE H. L. Thompson, Pres.-Gen. Mgr.; H. A. Nusbaum, Secy.; H. M. Kelsey, Treas.; Wm. V. Knight, V. Pres.	Monroe & Summit
K-R	BRANDON, A. H. & CO. W. H. Jeffrey, Partner; A. H. Brandon, Partner; J. Casper, Partner.	Produce Exch. Bldg.
DD	BRAUNSCHWEIGER BROS. John Braunschweiger, Prop.; Christian Braunschweiger, Prop.	40 Erie
K	BROWN AUTOMATIC HOSE COUPLING CO., THE P. L. Andrews, Pres.; C. L. Andrews, Secy.-Treas.	101 Indiana Ave.
D	BROWN STAMPING CO., THE L. O. Brown, Pres.-Treas.-G. M. P. A.; A. H. Brown, V. Pres.-Fcty. Mgr.; L. T. Shoup, Secy.; T. O. Brown, Asst. Pur. Agt.; A. L. Baker, Sales Rep.	1348 Dawson St.
XX	BUCKEYE CLAY POT CO. Wm. K. Brownlee, Pres.-A. S. Zopfi, Secy.-Treas.	Bassett & Ontario
E-K-DD	BUNTING BRASS & BRONZE CO. J. W. Bunting, Pres.; C. E. Bunting, V. Pres.-Secy.; W. H. Bunting, G. M.; Geo. Thompson, Fcty. Mgr.; E. Frantschi, Prod. Mgr.-P. A.; J. E. Owens, Sales Mgr.	
H-X	CENTRAL BRASS FOUNDRY CO. D. Raymond, Prop.-Asst. Mgr.-Supt.; H. Fleischman, G. M.-P. A.	217-19 Locust St.
E	CHAMPION SPARK PLUG CO., THE Robert A. Stranahan, Pres.; Frank D. Stranahan, Secy.-Treas.	900 Upton Ave.
B-DD-II	CITY MACHINE & TOOL CO., THE Amos Lint, Pres.-Treas.; R. D. Logan, V. Pres.-Secy.; Chas. Foster, Gen. Mgr.-Mech. Engr.	Toledo Factories Bldg.
BB-I-PP	COGHLIN-KIRBY MCHRY. & SUPPLY CO., THE Wm. Coghlin, Pres.-Treas.-G. M.; Jas. A. Kirkby, V. P. Secy. Asst. G. M.-P. A.	109 St. Clair St.
BB-K	COLBY-MERRILL CO., THE Frank C. Gibbs, Dist. Mgr.	Nicholas Bldg. (M. O. Cleveland, O.)

TOLEDO, LUCAS COUNTY, OHIO

Class	Firm and Personnel	Address
XX	COLLINGWOOD BRICK & CLAY CO. W. A. Howell, G. M.-Sec.-Treas.-P. A.	Stickney Ave. & M. C. Ry.
YY	CONKLIN PEN MFG. CO., THE H. E. Fisher, Pres.; Chas. A. Lucks, Treas.-Gen. Mgr.	447 Huron St.
NN	CONSOLIDATED PUMP CO., THE E. Tibbets, Pres.; J. C. A. Leppelman, Secy.-Treas.	
	CYCLOMOBILE MFG. CO., THE M. Rubinick, Pres.; A. Kaiserman, V. Pres.; Geo. H. Bauer, Secy.-Treas.; Chas. F. Hamel, Gen. Mgr.	1013 Summit
	DETROIT RANGE, BOILER & STEEL BARREL CO. F. A. Wheeler, Mgr.	454 Earl St.
NN	DEVILBISS MFG. CO., THE Information withheld	Detroit & Phillips Ave.
H-X	DOEHLER DIE CASTING CO., THE J. A. Tallman, Gen. Mgr.	Smead & Prospect Ave.
ZZ-N	DONOVAN WIRE & IRON CO., THE D. C. Donovan, Pres.	Chicago St. & W. & L. E. R. R.
K	DUBLAKE MFG. CO. Fred H. Schill, Pres.-P. A.; Wm. E. Eiler, Treas.-G. M.; Chas. Taylor, Fcty. Mgr.-Supt.	19-21 N. St. Clair St.
M-DD-LL	DUNCAN COMPANY, THE Fred F. Duncan, Pres.-Gen. Mgr.; A. Duncan, V. Pres.; I. G. Millard, Secy.-Treas.; G. A. Kramer, Fcty. Mgr.; Chas. M. Thorpe, Gen. Supt.; B. Lehman, Pur. Agt.	504 Water St.
K	DURA MECHANICAL HDW. CO., INC. F. D. Suydam, Jr., Pres.; H. W. Suydam, V. P.; H. H. Buggie, V. P. G. M.; Otto Marx, Secty.; F. H. Dodge, Treas.; S. W. Nicholson, Ch. Engr.; W. W. Carroll, Fcty. Mgr.; Geo. Buehler, Supt.; T. P. Dodge, P. A.; C. F. Hale, Asst. P. A.	2288 S. Albion St.
Z	EAST SIDE IRON ELEVATOR CO., THE James Hodge, Pres.; E. C. Edwards, V. Pres.; W. A. Bondman, Secy.-Gen. Mgr.	904 2nd Natl. Bank Building
AAA	EASTERN TORPEDO CO. OF OHIO, THE W. H. Jeffrey, Pres.-Treas.-P. A.; E. C. Edwards, V. P.-Secty.; D. A. Koons, G. M.	Produce Exch. Bldg.
E-R	ELECTRIC AUTO-LITE CORP. C. O. Mininger, Pres.-G. M.; C. B. Mertz, Secty.; J. H. Housholden, Treas.; E. T. Affleck, Fcty. Mgr.; E. H. Reed, P. A.; F. J. Urban, Sales Mgr.; A. E. Buckenberg, Ch. Engr.; C. E. Gilchrist, Sales Engr.; F. W. Wilson, Asst. P. A.	Chestnut & Champlain Sts.
H-X	EMCH & BINNEY G. F. Emch, Pres.-G. M.; R. L. Binney, Sec.-Treas.-P. A.; N. I. Terbille, Fcty. Mgr.	South & Spencer Sts.
H-X	ENSIGN FDY. CO., THE Chas. W. Roshong, Pres.-Treas.; Roy M. Ensign, V. P.-G. M.; R. R. Simonton, Secy.-P. A.	West Bancroft & N. Y. C.
A-B-DD-H-X	ETNA MACHINE CO., THE E. T. Abbey, Pres.; L. P. Byers, Secy.-Treas.	3400 Maplewood Ave.
RR	FANGER BEET HARVESTER CO. L. L. Epstein, Pres.; F. M. Douglass, Secy.-Treas.	421 Michigan
A-B-T	FARWELL GEAR HOBBING MACH. WKS. F. O. Farwell, Prop.-Gen. Supt.; F. G. Farwell, Secy. Ch. Engr. P. A.; J. E. Farwell, Fcty. Mgr. Gen. Supt.	Post & Albion Sts.
II-KK	FASTFEED DRILL & TOOL CORP. M. W. Mix, Pres.; H. D. Robbins, V. P.-Treas.-P. A.; J. T. Herne, Secty.; W. L. Runion, Asst. Treas.; C. F. Ostrosky, Gen. Supt.	Clinton St. (Near Oakwood).
O	FERGUSON FURNACE CO., THE Ira B. Lesh, Pres.; Gus Bluemel, V. P.-Ch. Engr.; Chas. H. Peirce, Sec.-Treas.-P. A.	Sec. Natl. Bank Building
BB-F	FREEMAN PATTERN SUPPLY & MFG. CO. Wm. D. Freeman, Gen. Mgr.	Woodhill & Hazelwood
F-H-X	GARTLAND-TOLEDO FDRY CO., THE M. F. Gartland, Pres.; T. H. Gartland, V. P.; F. X. Gartland, Secty.; John C. Haswell, Treas.; R. J. Wisely, Ch. Engr.-P. A.-Fcty. Mgr.; J. J. Carroll, G. M.	1817 Starr Ave.
D-N	GENDRON WHEEL CO., THE J. F. Vogle, Pres.; Harry E. Fisher, Secy.; C. A. Russell, V. Pres.; J. W. Coover, Treas.	Superior & Orange Sts.
D-QQ	GERKEN, J. D. CO., THE J. D. Gerken, Pres.-Treas.-G. M.; Marie Schmassman, Secty.	25-29 Ontario St.



**TWIST DRILL
COMPANY
CLEVELAND**
NEW YORK-CHICAGO-LONDON

**"Mezzo" Bridges The Gap Between Carbon
& High Speed Drills.**

TOLEDO, LUÇAS COUNTY, OHIO

Class	Firm and Personnel	Address
H-X	HALCO MFG. CO., THE J. H. Johnson, Pres.; W. S. Mefford, Secy.-Treas.; O. J. Manthey, Gen. Mgr.	2146 Sylvan
Z	HAUGHTON ELEV. & MACH. CO., THE I. N. Haughton, Pres.-G. M.-Sales; Geo. L. McKesson, V. P.-Treas.; H. H. Converse, Secty.; F. L. Ohler, Ch. Engr.; P. N. Scott, P. A.; H. A. Bennett, Fcty. Mgr.-Prod. Supt.	Spencer St.
BB-NN	HAWLEY, W. & CO. W. Hawley, Sales Mgr.	Nicholas Bldg.
A-B-DD	HEARTLEY, GEO. W. Geo. W. Hartley, Prop.	900 Summit St.
BB-G-JJ	HIGGINS, DEAN & CO. Dean Higgins, Pres.; J. W. Wilson, Treas.	910 Ohio Bldg.
B-DD-II	HOFFMAN MACHINE CO. Chester J. Hoffman, Prop.	3041 Summit Ave.
H-X	HOUGHTON MALLEABLE CASTINGS CO. Ira L. Houghton, Pres. Gen. Mgr.; Robt. J. Thomas, V. Pres.; F. S. Lewis, Secy.; F. P. Kennison, Treas.	
L	INDUSTRIAL RESEARCH CORP. C. P. Brockway, Gen. Mgr.	1025 Front
H-X	INDUSTRIAL STEEL CASTING CO., THE Office Water Works Drive.—Wks. Millard Ave. & Front St. Jos. L. Tillman, Pres.-Treas.-G. M.; William E. Wine, V. Pres.; R. F. Tillman, Secy.-G. M.-P. A.; R. H. Souder, Fcty. Mgr.; F. Vollmayer, Ch. Engr.-Master Mech.	
H-X	INGERSOLL FOUNDRY CO. Geo. W. Ingersoll, Prop.	Broadway & N. Y. C. R. R.
B-DD-II	JAXON COMPANY, THE F. E. La France, Pres. Treas. G. M.; J. J. Dimeo, Fcty. Mgr.-Supt.; S. N. Sloan, Ch. Engr.-P. A.-Sales; Albert Lamb, M. M.; Clara Schmidt, Asst. P. A.	1014 Jackson Ave.
R	JEANNIN ELECTRIC CO., THE Harry W. Jeannin, Prop.	110 Eleventh
C	JONES, S. M. CO. P. C. Jones, Pres.; P. H. Jones, V. Pres.; A. H. Emerson, Secy.; John. S. Good, Treas.	622 Segur Ave.
B-E-DD	K. & M. MFG. CO., THE W. H. Minier, Pres. G. M. Pur. Agt.; Mark Winchester, V. Pres.; Fred H. Kruse, Secy.; J. W. Wilson, Treas.; J. B. Heck, Gen Supt.	Toledo Factories Bldg.
B-F-DD	KENT-OWENS MACHINE CO., THE Wm. S. Walbridge, Pres.; H. C. Ross, V. Pres.-Gen. Mgr.; E. L. Walbridge, V. Pres.; F. L. Geddes, Secy.; T. H. Miller, Treas.; G. B. Cheetham, Fcty. Mgr.; E. G. Schill, Ch. Engr.; C. H. Severin, Prod. Mgr.; E. Keier, Gen. Supt.; J. B. Rogers, Pur. Agt.; M. V. Girkins, S. M.	958 Wall St.
Z	KERSCHER ELEVATOR CO., THE George J. Kersch, Pres.-G. M.-P. A.; Wm. J. Kersch, Sec.-Treas.; Jos. F. Pollauf, Fcty. Mgr.-Ch. Engr.	915 Ontario St.
D-L	KLOPPING, A. C. A. C. Klopping, Prop.	1678 Norwood
C	KRENZ BOILER WORKS CO. R. W. Krenz, Prop.	Summit & Buffalo
R-L	KUHLMAN ENGR. CO., THE L. J. Harpst, Pres.; C. H. Kuhlman, Secy.-Treas.	
BB-G-JJ	LATROBE ELEC. STEEL CO. A. L. Litchfield, Dist. Mgr.	248 Water St.
XX	LIBBEY GLASS MFG. CO., THE E. D. Libbey, Pres.; S. O. Richardson, Jr., V. Pres.; J. D. Robinson, Secy.-Treas.; Wm. F. Donovan, Asst. Treas.	Ash St. & W. & L. E. R. R.
XX	LIBBEY-OWENS SHEET GLASS CO., THE E. D. Libbey, Pres.; M. J. Owens, V. Pres.; J. C. Blair, V. Pres.; A. E. Fowle, Treas.; O. P. Walke, Auditor; S. B. Henshaw, Fcty. Mgr.	1341 Nicholas Bldg.
C	LOOS, ADAM BOILER WKS. Adam Loos, Prop.	135-43 S. Erie Street.
	McCARTHY DRILL & TOOL CORP. E. E. Eiseman, V. Pres.; John D. McGrath, Secy.-Treas.; F. J. Lazure, Gen. Mgr.	1805 Clinton

TOLEDO, LUCAS COUNTY, OHIO

Class	Firm and Personnel	Address
E	MATHER SPRING CO., THE Gordon M. Mather, Pres.; H. H. Timken (Canton, O.) V. Pres.; F. J. Groth, Treas.; D. B. Mather, Gen. Supt.	Castle Blvd. & N. Y. C. R. R.
YY	MARKS, B. I. (Prop.)	424½ Avondale St.
B-DD-II	MARTINEK & REYNOLDS MCHY. CO. John P. Martinek, John B. Reynolds, Props.	932 Post
H-X	MAUMEE MALLEABLE CASTINGS CO., THE J. L. Tillman, Pres.-G. M.-Fcty. Mgr.; P. C. Jones, V. P.; J. B. McMahon, Secty.; H. A. Marti, Treas.-P. A.; Wm. H. Hanlon, Gen. Supt.; E. L. Stockwell, Sales Mgr.	Woodville St.
F-H-X	MAUMEE PATTERN CO., THE J. H. Bridge, Pres. G. M.; C. E. Bunting, S. T.; L. H. Elmer, P. A.; F. G. Wright, Gen. Supt.	229 Vine St.
B-DD-II	MAYLE, A. M. MFG. CO. A. M. Mayle, Prop.	1450 Foster Ave
	MEILINK STEEL SAFE CO., THE C. F. Meilink, Pres.-G. M.; B. C. Cramer, V. P.; G. F. Peiter, Sec.-Treas.; E. Pierson, Ch. Engr.; D. A. Heinle, P. A.-Fcty. Mgr.; A. McCaffrey, Prod. Mgr.; C. Lebowsky, Gen. Supt.; C. W. Wolfret, Dist. Mgr.	Oakwood & N. Y. C. R. R.
A-B-H-X	MERRELL MFG. CO., THE C. L. Reynolds, Pres.; I. E. Knisely, V. Pres.; E. A. Copley, Secy.-Treas.	Curtis St. & N. Y. C. R. R.
DD-II	MIAMI MACHINE CO., THE E. L. Hopkins, Pres.-Treas.-G. M.-P. A.; H. E. Fitkin, V. Pres.; Fcty. Mgr.-Asst. P. A.; F. C. Fisher, Secy.-Ch. Engr.; A. M. Taggart, Gen. Supt.; Sales Mgr.; W. B. Webb, M. M.	609 Jefferson Ave.
	MICHON MFG. CO. J. H. Michon, Prop.-G. M.	154 Lincoln Avenue
E	MILBURN WAGON CO. H. W. Suydam, Pres.; Otto Marx, V. Pres.; F. D. Suydam, Jr., Secy.; F. H. Dodge, Treas.	3134 Monroe St.
ZZ	MILMINE, H. B. & CO. H. B. Milmine, Alfred Milmine, Props.	Field Ave. & N. Y. C. R. R.
F	MODERN PATTERN WKS. W. F. Erler, Pres.-Treas.-G. M.; F. H. Schill, V. Pres. Sec.-Treas.	19-21 St. Clair St.
BB-I-PP	MORIARITY, M. F. & CO. Michael F. Moriarity, Lawrence F. Moriarity, Props.	Spitzer Bldg.
R-Q	NAGEL W. G. ELECTRIC CO., THE W. G. Nagel, Pres.-G. M.-Supt. P. A.; H. E. Adams, V. P.-Treas.; R. N. Evans, Secty.	28-32 St. Clair St.
R	NATL. ELECT. SPEC. CO., THE S. O. Richardson, Jr., Pres.; C. F. Wall, V. P.; L. L. D. Chapman, Sec.-Treas.; J. T. Greene, G. M.; S. A. Reid, Fcty. Mgr.; M. J. O'Gorman, P. A.	Terminal Bldg.
Z-CC	NATIONAL HOIST & CONVEYOR CO. A. Dupuis, Pres.-G. M.-P. A.-Sales Mgr.; F. Foss, V. P.; W. S. Thurstin, Jr., Secy.; J. Sumner Kirk, Treas.-Asst. P. A.; A. Dupuis, Fcty. Mgr.-Supt.	Ohio Bldg.
DD-II	NATIONAL MCHY. PARTS CO. Ernest Truman, Prop.; R. L. Hinds, Prop.	104 Ottawa
H-X	NATIONAL MALLEABLE CASTINGS CO., THE Loren B. Wilson, Mgr.; J. N. Merrell, Jr., Sales Agt.; Robt. F. Nachtreib, Local Treas.; Henry Helm, Supt.	Front & Paine Ave
F	NATIONAL PATTERN CO., THE G. S. Foley, J. R. Cable, Props.	Henry & W. Bancroft
BB-I-K-PP-NN	NATIONAL SUPPLY CO. Wm. Hardee, Ch. Board; James H. Barr, Pres.; Frank Collins, 1st V. Pres.; Gus F. Mahan, 2nd V. Pres.; Charles W. Mascho, 3rd V. Pres.; Chas. R. Clapp, Sec.-Treas.; W. Paul Bateman, Comptroller; Sidney S. Cooke, Asst. Secy.-Treas.; J. M. Stoddard, Gen. P. A.; W. H. Jeffrey, Mgr. Sales; Jno. A. Geismar, Mgr. Mch. Dept.	Genl. Office 136 Huron—Warehouse 1-9 St. Clair
F-H-X	NON-FERRO FDY. & PATTERN CO., THE A. J. Rellinger, Pres.; R. Eppich, V. P.; F. G. Simon, Secty.; H. J. Badhorn, Sec.-Treas.; P. A. Gaynor, P. A.-Sales Mgr.	1361 Bancroft St
UU	OHIO BELTING CO., THE Geo. Cousins, Pres.-Treas.; Harry Devers, V. Pres.; B. Devers, Secy.	406 Orange
A-B-DD	O'NEILL MACHINE CO., THE Frank O'Neill, Pres.; Wilson O'Neill, Secy.; J. Brubaker, Ch. Engr.	Toledo Factories Bldg

TOLEDO, LUCAS COUNTY, OHIO

Class	Firm and Personnel	Address
DD	PAUCK, E. MACHINE CO. Geo. Buehler, Supt.	3432 Summit
QQ	PERFECTION FURNACE PIPE CO., THE E. A. Myers, Pres.-G. M.-P. A.; Daniel Wagner, V. P.-Gen. Supt.; W. A. Eversman, S.-T.	602 Broadway
BB-C-NN-K	POWER EQUIPMENT CO., THE E. J. Wehrly, Pres.; G. R. Lyon, V. Pres.-Treas.	712 2nd Natl. Bank Bldg.
S	RAILWAY BRAKE SPEC. CO. F. M. DeLano, Pres.-G. M.-Fcty. Mgr.; S. C. Wine, Secy.-Treas.	1361 W. Bancroft St.
S	RAILWAY MATERIALS CO., THE I. B. Lesh, Gen. Supt.	1206 2nd Nat'l Bank Bldg.
FFF	RANSOM & RANDOLPH CO., THE F. G. Crandell, Pres.; R. E. Munn, V. P.; M. H. McFellin, Sec.-Treas.; P. H. Munn, Fcty. Mgr.; J. M. Riebel, P. A.; L. R. Carver, Asst. P. A.	514-18 Jefferson Ave.
C	RATHBUN-JONES ENGR. CO., THE George J. Rathbun, Pres.-G. M.; Edw. Rathbun, V. P.-Ch. Engr.; S. N. Owen, Sec.-Treas.-P. A.	Spencer St.
BB-N-HH	READY MFG. CO. John P. Delphey, Mgr.	412 Nashby Bldg.—Fcty. W. Toledo.
B-NN	REFRIGERATION ENGR. CO., THE F. B. Riley, Pres.; C. A. Peckham, V. Pres.; H. H. Zimmerman, Secy.-Treas.; Frank L. Mumford, Supt.	Office 301 Nashby Bldg.—Plant Factories Bldg.
D-K	REIDON CO., THE Alfred W. Reiser, Pres.-P. A.-G. M.; F. J. Miller, Fcty. Mgr.; T. C. Donohoe, Sales Mgr.	129 Huron St.
UU	RELIABLE LEATHER BELTING CO. Henry Boland, Prop.	706 Jefferson Ave.
B-DD-II	RELIABLE MCH. & TOOL CO., THE Emil F. Pioch, Pres.-Treas.; John Pioch, V. Pres.; M. O. Rittig, Secy.; W. E. Heuer, Fcty. Mgr.; H. C. Hinckforth, Pur. Agt.	1214 Dorr Street.
K	REYNOLDS MFG. CO., THE Chas. F. Reynolds, Pres.; John H. Reynolds, V. Pres.-Treas.; R. G. Fitzpatrick, Secy.	1120 Sylvania Ave.
R-D	RIDDLE, EDW. N. CO., THE E. N. Riddle, Pres.; J. N. Riddle, V. Pres.; J. K. Riddle, Secy.	609 St. Clair Ave.
	ROLLAWAY MOTOR CO., THE Walter Stewart, Pres.; C. A. Pennoyer, V. P.-Sales Mgr.; D. V. R. Manley, Sec.-Treas.; H. F. Bush, P. A.; Carl Sattler, Supt.	517-19 Shepard St.
DD-II	RUEMBELI, H. & SON Herman Ruembeli, Edw. Ruembeli, Props.	220 S. Erie Street
VV	SCHWAB MACH. & SUPPLY CO. M. M. Schwab, Pres. G. M. P. A.; S. S. Schawb, V. Pres.	201 Lucas
R	SEABURY, RALPH L. Ralph L. Seabury, Prop.	Factories Bldg.
D-R-E	SEISS MFG. CO., THE Geo. J. Seiss, Pres.-Gen. Mgr.-Pur. Agt.; Leonard A. Seiss, V. Pres.-Gen. Supt.; August J. Seiss, Secy.-Treas.-Sales Mgr.; Ernest E. Seiss, Master Mech.	Phillips Ave. & N. Y. C. R. R.
K	SHAW-KENDALL ENGR. CO., THE W. L. Brown, Pres.-G. M.; W. C. Carr, V. P.; C. H. Carroll, Sec.-Treas.; R. M. Bellman, P. A.; L. Zerk, Supt.	120 S. Superior St.
BB-C-NN-K	SKELDON, J. L. ENGR. CO. Jos. L. Skeldon, Pres.-Treas.; David F. Skeldon, V. Pres.; Thos. J. O'Connor, Secy.	242 Water
K	SMITHCHESTER CHANDELIER MFG. CO. W. A. Smith, Prop.; Mark Winchester, Prop.	416 Main St.
GGG	STANDARD ELECTRIC STOVE CO., THE S. L. Kelley, Pres.; Luther D. Smith, V. Pres.-Gen. Mgr.; W. W. Vosper, V. Pres.; Chas. S. Turner, Treas.; F. M. Bostator, Secy.	1720 N. 12th St.
LL	STANDARD STEEL TUBE CO., THE G. B. Storer, Jr., Pres.-Treas. G. M.-Fcty. Mgr.; Marion M. Miller, V. P.; Henry C. Truesdale, Secy. J. E. Siegel, Ch. Engr.; Chas. Schmuhl, Prod. Supt.; J. R. Michenor, P. A.; Bert A. Quayle, Sales Mgr.	Detroit & Fitchland Aves.
BB-S	STARK, JAMES P. & CO. James P. Stark, Prop.	527 Nasby Bldg.

TOLEDO, LUCAS COUNTY, OHIO

Class	Firm and Personnel	Address
K	STEARNS MFG. COMPANY..... Carlton L. Borchard, Mgr.	1501 Adams St.
D	STERLING CORK & SEAL CO., THE..... Geo. F. Pomeroy, Pres.; C. R. Clapp, V. Pres.; J. M. Steenberg, V. Pres.; John A. Hova, Secy.-Treas.; H. F. Benner, Gen. Mgr.; Wm. Haussman, Gen. Supt.	1612 Oakwood Ave.
B-DD-II	SULLIVAN MACHINE CO..... Timothy J. Sullivan, Prop.	1157 Dorr St.
F	SUN PATTERN CO., THE..... Edw. Wasserman, Prop.-G. M.	810 Hazelwood Ave.
B-DD-II	THREM & DAVIS CO..... Wm. B. Threm, C. A. Davis, Props.	1514 Oakwood Ave.
E	TILLOTSON MFG. CO., THE..... H. C. Tillotson, Pres.-Gen. Mgr.; R. R. Scott, Secy.; V. H. Harris, Treas.; A. E. Payne, Fcty. Mgr.-Prod. Mgr.; C. W. McKinley, Ch. Engr.-Sales Engr.; H. H. Balsmeyer, Pur. Agt.	City Blvd. & M. C. Ry.
B-DD-II	TOLEDO ACME TOOL CO., THE..... F. Rundquist, Pres.-Treas.-P. A.; H. Rundquist, V. P.-G. M.-Fcty. Mgr.; L. Gorman, Secty.	500 S. St. Clair St.
UU	TOLEDO BELTING CO..... John D. Stalker, Pres.-G. M.; Jennie Stalker, Sec.-Treas.-P. A.	1312 Adams St.
	TOLEDO BRASS NOVELTY WKS..... Geo. Volk, Prop.	1-5 Summit
P-CC-ZZ	TOLEDO BRIDGE & CRANE CO..... C. A. Peckham, Pres.; C. M. Foster, V. Pres.-Gen. Mgr.; A. B. Loomis, V. Pres.; C. H. Tucker, V. Pres.; N. A. Tracy, Secy.; L. N. Bardol, Treas.	Dorr St. & N. Y. C. R. R.
B	TOLEDO BUTTON MACHINE CO..... E. Pauck, Pres.; Geo. W. Walbridge, V. Pres.; H. A. Stafford, Secy.; W. L. Lamb, Treas.	3440 Summit
E	TOLEDO CHEVROLET MOTOR CO..... T. W. Warner, Pres.; John T. Addison, Secy.-Treas.; Geo. W. Moore, Gen. Mgr.; E. H. Witker, Comptroller.	W. Central Ave. & M. C. R. R.
D	TOLEDO COOKER CO., THE..... C. E. Swartzbaugh, Sr., Pres.-G. M.; C. E. Swartzbaugh, Jr., V. P.-P. A.; J. B. Swartzbaugh, Secty.; C. K. Swartzbaugh, Treas.; S. S. Swartzbaugh, Supt.; H. A. Brown, Fcty. Mgr.	1501 W. Bancroft St.
DD	TOLEDO CYLINDER REGRINDING MACH. CO..... J. H. Yonker, Pres.-Supt.-P. A.; F. H. Newton, V. P.; C. F. Souder, Sec.-Treas.-Sales Mgr.	108 Michigan St.
QQ	TOLEDO EXHAUST & BLOW PIPE CO..... Jno. H. Sharer, Prop.	1608 Cherry
P-CC	TOLEDO FOUNDRY & MCH. CO., THE..... H. W. Koelker, Pres.; J. C. Wuerfel, Secy.-Wks. Mgr.; G. D. Wuerfel, Mech. Engr.; John Milne, Supt.	220 Cherry St.
G	TOLEDO FURNACE CO., THE..... H. S. Pickands, Pres.; J. C. McLauchlan, V. P.; S. E. Bool, Secty.; E. P. Williams, Treas.; N. B. Prentice, P. A.; J. S. Crowther, Jr., Gen. Supt.; S. Campbell, M. M.	Front St.
B-DD-II	TOLEDO GENL. MFG. CO., THE..... A. M. Bates, Pres.; L. H. Hartman, V. P.-Treas.; Wm. F. Miller, Secty.; Oscar Schramm, Asst. Treas.; O. R. Hartman, G. M.-Sales Mgr.-P. A.; C. D. Wilson, Gen. Supt.	3444 Summit Ave.
F	TOLEDO GLUE APPLIANCE CO., THE..... Derby R. Smith, Pres.; V. W. Brinkerhoff, V. P.; A. B. Taggart, Secty.-P. A.-G. M.; Geo. R. Lyon, Treas.; E. L. Hopkins, Fcty. Mgr.; H. E. Fitkin, Prod. Mgr.	601 Jefferson Ave.
D-DD-U-II	TOLEDO JEWELRY MFG. CO., THE..... D. A. Runnels, Pres.-Supt.; M. B. McCarthy, V. P.; C. L. DeShetler, Sec.-Treas.-G. M.; H. DeShetler, P. A.; Wm. G. Godi, M. M.	Smith & Baker Bldg.
A-B-WW	TOLEDO MACHINE & TOOL CO..... Henry J. Hinde, Pres.-Gen. Mgr.; Louis Hinde, V. Pres.-Sales Mgr.; Chas. W. Greening, Sec.-Treas.	1426 Hastings
QQ-D	TOLEDO METAL FURNITURE CO., THE..... Philip E. Uhl, Pres.; Clement R. Uhl, V. P.-Gen. Supt.; Jos. F. L. Uhl, Sec.-Treas.-G. M.; Thomas V. Uhl, Prod.-P. A.; Jos. B. Triendl, Asst. P. A.; L. E. Fisher, Sales Mgr.	Dorr St. & N. Y. C. R. R.
D-C-QQ	TOLEDO METAL MFGRS. CO., THE..... J. F. Grosswiller, Pres.; Wilber Owen, V. P.; S. M. Sawhill, Sec.-Treas.-G. M.; I. S. Vanskiver, Ch. Engr.-Supt.-P. A.; Lawrence Meyer, Fcty. Mgr.	Box 56, Station G

TOLEDO, LUCAS COUNTY, OHIO

Class	Firm and Personnel	Address
D-N	TOLEDO METAL WHEEL CO., THE F. E. Southard, Pres.-G. M.; Burton Southard, Treas.; M. T. Johnson, P. A.; J. Weber, Supt.; F. Penske, Prod. Mgr.	Bancroft & Smead Ave.
A-B	TOLEDO MILLING MACHINE CO. J. A. Geismar, Pres.; W. P. Bateman, Secy.-Treas.; L. E. Waite, Gen. Supt.	
TT-II	TOLEDO MOULD CO., THE George B. Arduser, Pres. G. M.; W. C. Byers, V. P. Fcty. Mgr. P. A.; M. L. Hova, S. T.; J. Arduser, Prod. Gen. Supt.	Factories Bldg.
A-B	TOLEDO PIPE THREADING MCH. CO. Frank Collins, Pres.; Jas. H. Barr, V. P.; W. W. Vosper, Secty.-Fcty. Mgr.-P. A.	1445 Summit St.
BB-MM-A-B	TOLEDO SAW & SUPPLY CO., THE A. M. Tillinghast, Pres.-Mgr.	Washington & St. Clair Sts.
KKK	TOLEDO SCALE COMPANY Henry Theobald, Pres.-G. M.; R. R. Theobald, V. P.; F. L. Geddes, V. P.; L. G. Christman, Secty.; W. A. Zolg, Treas.; Earle S. Smith, P. A.; O. C. Reeves, Gen. Supt.; J. P. Newell, Sales Mgr.	Monroe & Albion Streets
	TOLEDO SHIPBUILDING CO., THE C. B. Calder, V. Pres.-Gen. Mgr.; A. D. Black, Secy.-Asst. Treas.; Edward Hopkins, Navel. Archi.; W. G. Henderson, Gen. Supt.; A. Dunn, M. M.; H. Edgar, Gen. Foreman.	Front & Craigh Sts.
R	TOLEDO STANDARD COMMUTATOR CO., THE W. H. Jeffrey, Pres.; Eugene Rheinfrank, V. P.; E. D. Moon, Sec.-Treas.; A. L. Kerslaw, G. M.	2242 Smead Ave.
H-X	TOLEDO STEEL CASTING CO., THE S. D. Carr, Pres.; J. B. Nordholt, V. P.-Fcty. Mgr.-Ch. Engr.; C. C. Smith, Sec.-Treas.-P. A.-Sales; G. A. Weihrauch, Gen. Supt.; H. L. Farner, M. M.	Smead & Bancroft St.
LL	TOLEDO STEEL TUBE CO., THE Geo. S. Freeman, Pres.; J. C. McKisson, V. Pres.; H. W. McKisson, Secy.-Treas.-Gen. Mgr.	2115 Smead Ave.
GGG-H-X	TOLEDO STOVE & RANGE CO., THE G. G. Metzger, Pres.; H. L. Metzger, V. P.; E. L. Peters, Sec.-Treas.; B. F. Long, G. M.; R. W. MacLean, P. A.; A. W. Jacobs, Gen. Supt.	Smead Ave.
DD-II	TOLEDO TAP & DIE CO. R. L. Ellery, Pres.; F. E. LaFrance, V. P.-Treas.; L. P. Smith, Ch. Engr.; J. J. Dimeo, Fcty. Prod. Mgr.	Clinton St.
D	TOLEDO WASHER & STAMPING CO., THE F. J. Orcutt, Pres.-Treas.-G. M.; George Madden, V. P.; Henry Stantzenback, Secy.	216 Lafayette St.
EE	TOLEDO WELDING CO. C. L. Davis, Prop.	111 Eleventh St.
SS	TOLEDO WHEELBARROW CO., THE C. V. Skinner, Pres.; W. L. Schumacher, V. Pres.-Treas.-Sales Mgr.-Pur. Agt.; F. B. Anderson, Treas.; Joseph Troendle, Fcty. Mgr.-Gen. Supt.	Broadway & Wabash Crossing
ZZ	TOLEDO WIRE & IRON WKS. F. L. Powell, Prop.	Locust & Oneida
B-DD-II	TUNGSTEN ELEC. & STEEL CO. Anton Boeder, Mgr.	918 Water St.
C	UNITED ENGR. CO., THE H. J. Beck, Pres.; F. J. Dohn, Secy.; D. I. Dale, Treas.	931 Water
H-X	UNITED STATES MALLEABLE IRON CO., THE E. C. Hagener, Pres.-G. M.; D. A. Yoder, V. P.; Wm. W. Morrison, Sec.-Treas.; W. H. Davis, P. A.; H. J. Luschen, Gen. Supt.	Woodville & Bay Terminal
	U. S. MOP COMPANY, INC. Robt. C. Cornelius, Pres.-Treas.-G. M.-Sales; E. J. Furstenberg, V. P.-Fcty. Mgr.-P. A.; R. S. Leist, Secty.; Ralph Lehman, M. M.	1301 Prouty Ave.
R	USONA MFG. CO., THE H. M. Price, Pres.; C. D. Williams, Secy.-Treas.	311 St. Clair Ave.
DD-II-D	UTILITY TOOL- DIE & STAMPING CO. H. Rosen, Pres.-Gen. Mgr.	2942 Monroe St.
DD-II	VICTOR SCREW & MACHINE CO., THE Rudolph Glinski, Pres.-Treas.; John Detzer, Secy.-Mgr.	929 Water St.
BB-H	VIRGINIA EQUIP. CO. Lacey Y. Williams, Prop.	938 Ohio Bldg.

OHIO
SALES
OFFICE



MORSE DRIVES



ENGINEERS
BUILDING
CLEVELAND

TOLEDO, LUCAS COUNTY, OHIO

Class	Firm and Personnel	Address
B-DD-II	WATSON MFG. CO., THE C. W. Watson, Pres.-Treas.-G. M.-P. A.; Eugene Rhienfrank, V. Pres.; R. L. Watson, Secy.; Wm. H. Kinker, Gen. Supt.; H. C. Huekenbecker, Asst. Pur. Agt.	1062 Post Street
B-M	WEBER, J. A. COMPANY John A. Weber, Prop.-Mgr.; C. E. Mansell, Wks. Mgr.	174 Princeton Dr.
L-B-DD	WEDDLE, G. H. & CO. G. H. Weddle, Prop.	1932 Canton St.
F	WEST END PATTERN WKS. Fred J. Vogel, Prop.	1241 Oakwood
E	WILLYS-OVERLAND CO., THE J. N. Willys, Pres.; C. B. Wilson, V. Pres.-Gen. Mgr.; L. A. Miller, Secy.; J. H. Gerkens, Treas.; W. H. Kilpatrick, Fcty. Mgr.; E. H. Belden, Ch. Engr.; J. A. Sheldon, Prod. Mgr.; M. P. Cromling, Pur. Agt.; W. B. Calkins, Asst. Pur. Agt.	
S	WINE RAILWAY APPLIANCE CO., THE William E. Wine, Pres.-Sales Mgr.; Ralph F. Tillman, V. Pres.; Jos. L. Tillman, Secy. Treas.;	Water Works Drive

TORONTO, JEFFERSON COUNTY, OHIO

G-JJ	FOLLANSBEE BROS. CO., THE Wm. Banfield, Gen. Mgr.	M. O. Pittsburgh, Pa
DD	MYERS, FRANK G. Frank Myers, Prop.	
DD-H-X-L	TORONTO FDRY. & MACH. CO., THE. E. N. Francy, Pres.-Treas.; E. H. Thayer, G. M.-Supt.	

TROY, MIAMI COUNTY, OHIO

R	HOBART MFG. CO. C. M. Willard, Wks. Mgr.	
DD-EE	JULIAN MFG. CO. B. M. Jennings, Prop.	
D	LORIMER, HICKS CO., THE. G. W. Lorimer, Pres.	
V	MIAMI TRAILER CO. J. M. Rebholz, Supt.	
C-D-K-NN	SKINNER IRRIGATION CO. C. M. Drake, Gen. Supt.-Pur. Agt.	
D-E	TROY CARRIAGE SUNSHADE CO. Walter Stoneham, Gen. Supt.	
F	TROY PATTERN WKS. S. N. Touchman, Prop.	

UHRICHSVILLE, TUSCARAWAS COUNTY, OHIO

DD	GALLAGHER, W. R. W. R. Gallagher, C. Gallagher, Props.	
C-QQ	LUCIUS MFG. CO., THE. Information withheld.	

UPPER SANDUSKY, WYANDOT COUNTY, OHIO

NN-OO-K	NATIONAL STEAM PUMP COMPANY R. J. Main, R. W. Main, B. F. Main, Props.	West Johnson St.
---------	--	------------------

URBANA, CHAMPAIGN COUNTY, OHIO

Class	Firm and Personnel	Address
D-DD-II	AMERICAN TOOL & MFG. CO. P. J. Schneider, Gen. Mgr.; H. P. Creighton, Gen. Supt.	N. Main St.
L	COOK ENGINEERING CO. A. F. Cook, Pres.-Pur. Agt.	
AA	DESMOND-STEPHAN MFG. CO. George McConnell, Prop.-G. M.; C. N. Kohler, Treas.-P. A.; Henry Hentz, Fcty. Mgr.-Supt.	
S	ILLINOIS CAR CO. T. A. Edmondson, Gen.Supt.-Pur. Agt.	
D-QQ-GG	JOHNSON MFG. CO., THE. Information withheld.	
B-DD-II	MARVIN, W. B. MFG. CO., THE. Information withheld.	
B-DD-II	URBANA TOOL & DIE CO., THE Jas. K. Cheetham, Pres.; R. C. McDonald, V. Pres.-Gen. Mgr.-Pur. Agt.; Joseph K. Cheetham, Secy.-Treas.; C. H. Fowle, Ch. Engr.; O. G. McCoy, Gen. Supt.	E. Reynolds St.

UTICA, LICKING COUNTY, OHIO

DD	CREE, J. A. J. A. Cree, Prop.	
XX	LICKING WINDOW GLASS CO., THE. W. Harry McCann, Pres.-Gen. Mgr.; H. L. McCann, V. Pres.-Treas.; H. W. McCann, Secty.-Fcty. Mgr.-Pur. Agt.	
XX	UTICA GLASS CO., THE Information withheld.	

VAN WERT, VAN WERT COUNTY, OHIO

D	KENNEDY MFG. CO., THE C. F. Kennedy, Pres.-Gen. Mgr.; C. A. L. Purmort, V. Pres.; B. C. H. Harvey, Secy.; L. E. Rollo, Treas.; H. P. Shriver, Fcty. Mgr.-Pur. Agt.; L. C. Miller, Sales Mgr.	Jackson & Harrison Streets.
B-GGG-F	NEW ADVANCE MCHY. CO., THE. H. M. Gee, Pres.; J. W. Longwell, V. Pres.; F. W. Fraylick, Secy.-Treas.-Gen. Mgr.; R. L. Heath, Fcty. Mgr.-Pur. Agt.	
DD	SPAYD BROTHERS. Information withheld.	
H-X	VAN WERT FOUNDRY CO., THE. J. W. Longwell, Pres.; H. M. Gee, V. Pres.; W. E. Longwell, Secy.-Gen. Mgr.-P. A.; Geo. W. Kohn, Treas.; W. J. Hamman, Gen. Supt.	

VERMILION, ERIE COUNTY, OHIO

DD-E	DALL MOTOR PARTS CO., THE. L. A. Dall, Pres.-Gen. Mgr.; C. F. Decker, V. Pres.; W. D. Smith, Secy.-Treas.-P. A.; Fred Flack, Gen. Supt.	
D-K-E	WAKEFIELD, F. W., BRASS CO., THE. Information withheld.	

WADSWORTH, MEDINA COUNTY, OHIO

K	OHIO INJECTOR CO. Information withheld.	
	OHIO MATCH CO., THE. Don Young, Gen. Mgr.-P. A.; C. D. Chapin, P. A.; R. Weaver, Supt.	
XX	WADSWORTH BRICK & TILE CO., THE. T. M. Auble, Pres.; Ira Everhard, V. P.; S. C. Durling, Secty.; J. H. Rickard, Treas.; C. C. Anderton, G. M.-P. A.; Leonard Flath, Gen. Supt.; Thomas James, M. M.	
H-X	WADSWORTH FDY. CO., THE C. C. Patterson, Pres.-G. M.; Ira Everhard, V. P.; John Delegrauge, Secty.; F. Burgess, Treas.-P. A.	Auble Ave.

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

WAPAKONETA, AUGLAIZE COUNTY, OHIO

Class	Firm and Personnel	Address
B-K	ABNER MFG. CO., THE. Information withheld.	
HH	KREIN CHAIN CO., THE. L. D. Round, Pres.; L. D. Cull, Secy.-Treas.; W. G. Holley, Mgr.-P. A.	
FF	SCHEMMEL, GEO. C. Geo. C. Schemmel, Prop.	
RR	STANDARD CHURN CO., THE. R. C. Haman, Pres.; S. A. Hoskins, V. Pres.; W. P. Swink, Secy.-Fcty. Mgr.-Gen. Supt.; A. A. Klipfel, Treas.; J. L. Snyder, Gen. Mgr.-Pur. Agt.; W. P. Wellington, Master Mech.	
MM	WAPAKONETA MACHINE CO., THE. Carl D. Fischer, Jr., Pres.-G. M.; Wm. F. Fischer, V. P.; Emil J. Fischer, Sec.-Treas.-P. A.	

WARREN, TRUMBULL COUNTY, OHIO

B-L-H-DD	AETNA FDY. & MCH. CO., THE..... M. I. Arms, Pres.; Ward Vaughn, Ch. Engr.; R. J. Wean, Sales Engr.; Mrs. I. Taylor, P. A.	110 Hudson St.
K	AM. BLOCK & MFG. CO..... Math. Konold, Pres.; E. T. Ward, Gen. Mgr.-P. A.; P. B. Masters, Sec.-Treas.	Griswold Street.
FF	AM. WELDING & MFG. CO..... J. C. Manternach, Pres.-G. M.; T. S. Walker, Ch. Engr.-Supt.	Griswold & Penn R. R.
B	ARTHUR VULCANIZING MCH. CO., THE. Information withheld.	
A-K-II	BORDEN CO., THE..... W. A. Neracher, Pres.; A. F. Howe, V. P.-G. M.; M. W. Bechtel, Sec.-Treas.; H. R. Williams, Asst. Sales Mgr.; A. J. Sutcliffe, P. A.; Ira W. Nonneman, Gen. Supt.; V. L. Sprague, Ch. Engr.	Dana Ave.
U-GG	BRAINARD, JAS. W. STEEL CO..... Jas. W. Brainard, Pres.; A. N. Martin, V. P.-G. M. P. A.; L. A. Brainard, Sales Mgr.; R. H. Baker, Supt.	Perkins Rd.—M. O. Western Resv. Bldg.
G-JJ	BRIER HILL STEEL CO., THE (WEST RES. WKS.)..... Jas. H. Grose, Pres.; Chas. B. Cushwa, Gen. Mgr.; Geo. R. Perkins, Asst. G. M.; C. A. Ilgenfritz, P. A.; F. T. Moran, Supt.	(M. O. Youngstown, O.)
D-S-QQ	CHIC-CLEVE. CAR ROOFING CO. R. C. Dudley (Chicago, Ill.) Pres.; E. M. Hadley (Chicago, Ill.) V. P.-P. A.; F. A. Jacobs, Supt. (Local); W. L. Martin, P. A. (Local).	Thomas Rd.—(M. O. Chicago, Ill.)
R	COLONIAL ELECT. WKS. OF GENERAL ELEC. CO. Douglass Wood, Gen. Mgr.	(M. O. Schenectady, N. Y.)
YY	DENMAN-MYERS CORD TIRE CO., THE. Walter E. Myers, Pres.; F. F. Dugan, V. Pres.; Walter R. Denman, Secy.-G. M.; John E. Morris, Treas.; Harry F. Webster, Fcty. Mgr.-Gen. Supt.; J. G. Evans, Ch. Engr.-Master Mech.; F. A. Hitchcock, Pur. Agt.	
H-X	ELECTRIC ALLOY STEEL CASTING CO., THE. H. L. Coxey, Pres.-Gen. Mgr.; A. T. Ranck, V. Pres.; J. S. Coxey, Jr., Secy.-Treas.	
FF	FEDERAL MCH. & WELDER CO., THE..... T. H. Kane, Pres.; Z. A. McBerty, Sec.-Treas.-P. A.; F. P. McBerty, Gen. Mgr.; J. Livingston, Supt.	Dana Ave.
N	FROST-SUPERIOR FENCE CO., THE..... R. M. Frost, G. M.; J. J. Oppman, Supt.	Phenix Rd.
C-S	GENERAL AMERICAN TANK CAR CORP. Information withheld	(M. O. Chicago, Ill.)
	GEN. FIRE EXTINGUISHER CO., THE F. H. Maynard, Pres.-G. M.; Russell Grinnell, V. Pres.; Alfred Fritzsche, Gen. Sa. Mgr.; W. A. Neracher, 2nd V. P.; C. P. Riegger, Dist. P. A.; E. S. Nesbitt, Ch. Engr. (Sprink Dept.); A. W. Moulder, Ch. Engr. Power; Wm. Weston, Shop Supt.	(Ex. Office Prov., R. I.)
H-X	GEN. MALLEABLE CO., THE..... M. Konold, Pres.; E. T. Ward, G. Mgr.-P. A.; P. B. Masters, Sec.-Treas.; A. L. Oakes, Supt.	Griswold St.
	GRINNEL CO. (Inc.) F. H. Maynard, Pres.-G. M.; Russell Grinnell, V. Pres.; Alfred Fritzsche, Gen. Sales Mgr.; C. P. Riegger, Dist. P. A.; Wm. Weston Supt.; C. W. Heltzen, Mgr. Supply Dept.	Dana & Paige Aves. (Ex. Office Providence, R. I.)

WARREN, TRUMBULL COUNTY, OHIO

Class	Firm and Personnel	Address
N-G-ZZ	HELTZEL STEEL FORM & IRON CO., THE Jno. M. Heltzel, Pres.-Treas.; F. O. Heltzel, V. P.-Supt.; W. E. Calderwood, Sec.-P. A.; W. J. Stone, Sales Mgr.	Thomas Rd.
G-JJ	LIBERTY STEEL CO., THE A. N. Flora, Pres.; G. A. White, V. Pres.; A. L. Button, Secy.; J. Anderson, Treas.; Walter Jones, Fcty. Mgr.; Fred Willie, Ch. Engr.; Pur. & Sales (Trumbull Steel Co.)	
GG-QQ	OHIO CORRUGATING CO., THE W. Manning Kerr, Pres.-Treas.; C. H. Riegel, V. Pres.; Gen. Mgr.; L. J. Voyer, Secy.-Sales Mgr.; G. A. Davis, Gen. Supt.	S. Pine & Trumbull Streets
R-XX	OHIO DIVISION NATL. LAMP WKS. OF GELERAL ELECT. CO. A. M. Sweeney, Gen. Mgr.	North Park & Dana Ave.
R	PACKARD ELECTRIC CO., THE N. A. Wolcott, Pres.-Treas.; Chas. Fillius, V. Pres.; R. E. Gorton, Secy.; P. E. Cook, Ch. Engr.; R. Marshall, Supt.; J. A. Snyder, Pur. Agt	Dana Ave.
R	PEERLESS ELECT. CO., THE Geo. H. Jones, Pres.; W. C. Ward, V. P.-Gen. Mgr.-Treas.; J. L. Hadley, Supt.-Ch. Engr.; L. L. Goding, Adv.-Sales.	740 W. Market St.
LL	PHENIX TUBE COMPANY A. P. Alford, Pres.; A. J. Burden, V. Pres.-Gen. Mgr.; F. W. Funk, Supt.	Phenix Rd.
R	STANDARD TRANSFORMER COMPANY. W. F. Parker, Pres.-G. M.-P. A.	
D	STANDARD STEEL PROD. CO. H. E. Schuler, Prop.-G. M.	207 2nd Natl. Bank Bldg.
R	SUNLIGHT ELECT. MFG. CO., THE R. B. Wick, Pres.; J. B. Estabrook, Secy.-Treas.-Gen. Mgr.; C. L. Wood, V. Pres.; L. P. Mathew, Supt.; Geo. E. Kelts, Pur. Agt.	523 Dana Ave.
E	SUPREME MOTORS CORP. THE A. W. Green, Pres.-Treas. G. M.; W. O. Kaufman, P. A.-Asst. Mgr.; R. A. Wienhardt, Ch. Engr.; V. M. Smith, Supt.	Perkins Rd.
QQ-XX	TAYLOR, HALSEY W. CO. Halsey W. Taylor, Pres.-G. M.-P. A.; Paul Taylor, Treas.-Supt.	522 N. Park Ave.
FF	TAYLOR-WELDER CO., THE G. P. Gillmer, Pres.; A. C. Taylor, V. P.-Gen. Mgr. Ch. Eng.; J. A. Ewalt, Sec.-Treas.-P. A.; Wm. Wilson, Supt.	12 W. Atlantic St.
H-X	TRUMBULL BRONZE CO., THE M. A. Garvery, Pres.-G. M.-Supt.	Griswald & Penn Railroad
R	TRUMBULL DIV. NATL. LAMP WKS. OF GEN ELECT. CO. A. E. Mace, Gen. Mgr.	Austin & W. Market
H-X-F-U-R-I-BB DD-LL	TRUMBULL MFG. CO., THE W. C. Pendleton, Pres.; E. A. Williams, Secy.; A. C. Pendleton, Gen. Mgr.; M. L. Derge, Supt.-Pur. Agt.	200 S. Park Ave.
G-JJ	TRUMBULL STEEL CO., THE J. Warner, Pres.; W. G. B. Ward, V. Pres.; Phillip Wick, V. Pres.; A. N. Flora, V. Pres.; W. M. McFate, V. Pres.; A. L. Button, Secy.; J. U. Anderson, Treas.; G. A. White, Gen. Mgr.; Fred Wille, Cons. Ch. Engr.; H. G. O'Brien, Gen. Supt.; L. G. Gorman, Pur. Agt.	Pine St.
R	WARREN ARMATURE WORKS V. O. Allen, G. M.; C. S. Betticker, Supt.; J. R. Hines, Sec.-Treas.	500 W. Market St.
C-EE	WARREN BOILER & WELDING CO. Information withheld.	
C	WARREN CITY TANK & BOILER CO., THE A. R. Hughes, Pres.-G. M.; W. J. Edwards, V. Pres.; B. W. Edwards, Secty.; J. F. Patterson, Ch. Engr.; D. J. O'Rourke, Supt.; J. D. Edwards, P. A.	Griswald St.
G-JJ-RR	WARREN IRON & STEEL CO., THE C. B. Loveless, Pres.-G. M.; L. L. Jones, Sec.-Treas.; I. H. Price, Supt.	Dana & Paige Aves.
	WARREN METALLIC BED CO., THE E. Bresovitz, Pres.-G. M.; J. M. Gerken, P. A.; Louis Bresovitz, Supt.	Phenix Rd.
DD	WARREN MOTOR TRUCK CO., THE R. B. Wick, Pres.; F. F. Chamberlin, G. M.-Sec.-Treas.; D. M. Bell, Supt.	Dana Ave.
F	WARREN PATTERN WKS. Information withheld.	

WARREN, TRUMBULL COUNTY, OHIO

Class	Firm and Personnel	Address
D	WARREN STAMPING CO. G. T. Fillius, Pres.; F. A. Iddings, Sec.-Treas.-P. A.; J. H. Cummings, 2nd V. P.	N. Logan Ave.
M-S	WARREN TOOL & FORGE CO., THE J. D. Robertson, Pres.; M. J. Konold, V. P.; Geo. Konold, Sr., G. M.-T. P. A.; Geo. F. Konold, Jr., Secty.; Jno. Konold, Supt.	Griswald and Penn. R. R.—Also Pittsburgh, Pa.
EE-GG	WARREN WELDING CO. O. L. Harris, Geo. Thomas, Props.	25 Dana Ave.
FF	WINFIELD ELECT. WELD. MCH. CO., THE W. C. Winfield, Pres.; R. A. Cobb, V. P.; J. H. Ewalt, Sec.-Treas.-P. A.; A. C. Taylor, G. M.-Supt. Ch. Eng.	12 W. Atlantic St.
D-QQ	WINFIELD MFG. CO. W. C. Winfield, Pres.-Supt.; A. C. Taylor, V. P. Supt.; J. H. Ewalt, P. A.	12 W. Atlantic St.
GG-D	YOUNGSTOWN PRESSED STEEL CO., THE W. W. Galbreath, Pres.; A. J. Watson, Sec.-Treas.; E. G. Morrison, Gen. Mgr.; J. A. Stannitz, Ch. Engr.; J. W. Farrell, P. A.; H. C. Barnett, Supt.	Erie R. R. (Tracks)

WASHINGTON C. H., FAYETTE COUNTY, OHIO

	COFFMAN MFG. CO., THE Information withheld.	
H-X	WASHINGTON METAL PRODUCTS CO., THE Information withheld.	

WAUSEON, FULTON COUNTY, OHIO

E	AUTOMOTIVE BODY CO. W. D. Van Resselaner, Receiver.	
H-X	U. S. MALLEABLE IRON CO., THE Information withheld.	See Toledo, O.

WAYNESBURG, STARK COUNTY, OHIO

	NATIONAL FIREPROOFING CO., THE Information withheld.	See Pittsburgh, Pa.
	WHITACRE-GREER FIREPROOFING CO., THE J. J. Whitacre, Pres.; S. P. Robertson, V. P.; L. D. S. Klotz, Secty.; A. C. Estep, Treas.; J. B. Whitacre, G. M.-Engr.-Supt.; C. Baker, P. A.	

WELLINGTON, LORAIN COUNTY, OHIO

E	SHARP SPARK PLUG CO., THE J. F. Johnson, Pres.; R. E. Clisby, V. P.; F. D. Johnson, Sec.-Treas.-G. M.-P. A.; F. C. Walsh, Fcty. Mgr.-Ch. Engr.	
D-DD	STERLING MCH. & STAMPING CO., THE R. E. Clisby, Pres.-G. M.; V. W. Clisby, Secty.-P. A.; A. W. McHenry, Supt.	
TT	WELLINGTON MCH. CO., THE R. C. Bennett, Gen. Supt.	

WELLSTON, JACKSON COUNTY, OHIO

G	MILTON IRON CO., THE Information withheld.	
B	MORROW MFG. CO., THE Information withheld.	
G	WELLSTON IRON FURNACE CO., THE Information withheld.	Br. Jackson, Ohio
H-X	WELLSTON MFG. CO., THE Information withheld.	

WELLSVILLE, COLUMBIANA COUNTY, OHIO

Class	Firm and Personnel	Address
H-X	STEVENSON COMPANY, THE. W. G. Stevenson, Pres.; A. T. Abbott, V. P.; Thos. A. Hibbins, Bus. Mgr. Sales; L. G. Aughinbaugh, P. A.; A. McCombs, Engr.	
C	WHITACRE BOILER CO. Francis Whitacre, Prop.; E. G. Whitacre, G. M.	Commerce & Lisbon Sts.
XX	WOOSTER FIRE CLAY CO. Henry Wooster, Prop.	2501 Buckeye Ave.

WEST LAFAYETTE, COSHOCTON COUNTY, OHIO

K	JEWEL GAS IRON CO. Information withheld.	
D	LAFAYETTE STAMPING & ENAMELING CO., THE. Dr. H. R. McCurdy, Pres.; F. E. Jones, V. P.-Treas.-G. M.-Supt.; F. S. Davidson, Secty.; H. Boyer, P. A.; F. E. Jones, Sales Mgr.	
D	WEST LAFAYETTE MFG. CO., THE. John M. Kirk, Pres.; Fred R. Klein, V. P.-Treas.; Lucian Shaw, Secty.-P. A.; W. T. Naragon, G. M.; John Bender, M. M.	

WESTERVILLE, FRANKLIN COUNTY, OHIO

H-X	HANCE, J. W. FOUNDRY CO. H. T. Hance, Prop.	E. Broadway
H-X	KILGORE MFG. CO., THE. Information withheld.	

WICKLIFFE, LAKE COUNTY, OHIO

AAA	CLARKE CHEMICAL CO., THE. Information withheld.	
G	CLEVE. BRASS & COPPER MILLS, INC. W. P. Prince, G. M.; W. A. McGrain, Ch. Engr.; H. Dinneen, Supt.; G. H. Sharp, P. A.	Babbit Rd.
P-CC	CLEVE. CRANE & ENGINEERING CO., THE. W. D. Sayle, Pres.; W. C. Sayle, V. P.; C. C. Robbins, Secty.; A. C. Garnett, Treas.-P. A.; W. C. Heinle, Ch. Engr.; J. B. Shaver, Sales Mgr.; E. T. Bennington, Sales Engr.; D. T. Lavlin, Sales Rep.; Wm. G. Wehr, Gen. Supt.-M. M. H. Karr, Asst. P. A.; Geo. Florence, Prod. Mgr.	
P-CC-Z	CLEVE. ELECT. TRAMRAIL CO., THE. E. T. Bennington, G. M.; W. C. Heimle, Ch. Engr.; Wm. G. Wehr, Supt.; A. C. Barnett, P. A.-Treas.	Div. Cleve. Crane & Engr. Co.
S	STEEL CAR CO., THE. E. M. Joycé, G. M.-P. A.; J. C. Kerber, Supt.	Main Office, Hammond, Ind.

WILLARD, HURON COUNTY, OHIO

YY	PIONEER RUBBER CO., THE. Burt G. Smith, Pres.-Treas.; J. C. Gibson, V. Pres.; R. K. Williams, Secy.; R. H. Coovert, Gen. Supt.	
----	--	--

WILLOUGHBY, LAKE COUNTY, OHIO

YY	BUCKEYE RUBBER PROD. CO. C. H. Roth, Pres.-G. M.; Webster Norris, V. P.; J. M. Mackay, Secty.; Wm. E. Marks, Treas.; L. D. Hughes, P. A.; E. L. Stimson, Fcty. Mgr.; Herman Koelliker, Gen. Supt.	
B-DD	ECONOMY ENGINEERING CO., THE. F. O. Andrews, Pres.-G. M.-P. A.; James H. Smart, Sec.-Treas.; R. A. Walters, Ch. Engr.; Frank Trenn, Gen. Supt.	
B-H-X-CC-TT DD	HADFIELD-PENFIELD STEEL CO., THE. L. W. Penfield, V. Pres.-Treas.; W. S. Stothoff, Fcty. Mgr.; R. B. Stuckey, Ch. Engr.; F. J. King, Prod. Mgr.; F. A. Ierlan, Gen. Supt.; J. A. Penfield, Asst. Pur. Agt.	Mentor Ave.

Who? **HIGH CLASS EMPLOYMENT SERVICE** **FOR**
INTERSTATE BUSINESS EXCHANGE **Executives, Engineers,**
Est. 1906 **Est. 1906** **Draftsmen, Salesmen,**
Office Men and Women
MAIN 3629 658 ROSE BUILDING CLEVELAND

WILLOUGHBY, LAKE COUNTY, OHIO

Class	Firm and Personnel	Address
AAA	J. H. R. PRODUCTS CO., THE. A. N. Jeavons, Pres.; John G. Armstrong, Secty.-Asst. Treas.; W. R. Jeavons, V. P.-Treas.; M. J. Rentschler, Gen. & Fcty. Mgr.-P. A.	
YY	STANDARD TIRE CO., THE. R. J. Firestone, Pres.-Treas.-G. M.; E. A. Tinsman, V. P.; E. A. Hahn, Secty.; W. P. Voth, Fcty. Mgr.-Ch. Engr.; F. C. Hahn, P. A.; H. A. Smith, M. M.; E. B. Kimmel, Sales Mgr.	

WILMINGTON, CLINTON COUNTY, OHIO

OO	AU-TO COMPRESSOR CO., THE. J. W. Lawhead, Pres.; R. L. Owens, Secy.; M. R. Dinver, Treas.	
ZZ	CHAMPION BRIDGE CO., THE. A. C. Briggs, Pres.-R. L. Owens, Secy.-Treas.	
	FARQUHAR FURNACE CO., THE. J. R. Clevenger, Pres.; R. B. Monfort, Secy.; E. J. Hiatt, Treas.	
RR	HUNNICUTT, CHARLES CO. Information withheld.	
II-KK	IRWIN AUGER BIT CO., THEGrant St. M. R. Denver, Pres.; J. R. Clevenger, V. P.; S. A. Mitchell, Secty.-G. M.-P. A.; E. J. Hiatt, Treas.; Chas. Robinson, Ch. Engr.; Dell Lacy, Fcty. Mgr.; Frank Taylor, Prod. Mgr.; Ben Daulton, Gen. Supt.; John Cummins, M. M.	
AA	TURNBULL MFG. CO., THE. J. W. Lawhead, Pres.; R. C. Lawhead, Secy.-Treas.	
H-X	WILMINGTON CASTING CO., THE. P. S. Horton, Pres.-Gen. Mgr.; J. F. Goebel, V. Pres.-Gen. Supt.; E. R. Bales, Sec.-Treas.	

WOOSTER, WAYNE COUNTY, OHIO

K	AKRON BRASS MFG. CO., THE. O. H. Larwill, Pres.; Max Bloomberg, V. P.; J. C. Schellin, Secty.-P. A.; Guy Richards, Treas.; H. Hunt, Gen. Supt.; Chas. Lange, Prod. Mgr.	
D	BUCKEYE ALUMINUM CO., THE. G. W. Blake, Pres.-G. M.; R. S. Blake, Secty.-P. A.; A. L. Brown, Supt.	
C	BUCKEYE BOILER WKS.Nolle Bldg. Chas. McCann, Pres.; Karl Saltsman, Secty.-P. A.; C. P. Vallely, Treas.-Gen. Supt.	
DD	HARROLD MCH. CO., THEGrant St. H. H. Harrold, Prop. Supt.	
D-E	PNEUMATIC DISC WHEEL CO., THE. New company. Information not obtained.	
VV	SUCCESS DISH WASHING MCH. CO., THECushman St. Frank Blough, Pres.; Harry McClarran, V. P.; H. S. Palmer, Sec.-Treas.-P. A.-G. M.	
B-DD-T	WOODARD MACH. CO., THE. L. A. Woodard, Pres.-G. M.; H. B. Hatton, Sec.-Treas.; H. H. Talbot, Ch. Engr.; C. A. Reese, P. A.; R. A. Snyder, Supt.	
	WOOSTER BRUSH CO., THE. W. D. Foss, Pres.; D. J. Foss, V. P.-G. M.-P. A.; E. Shibley, Secty.; C. P. Foss, Treas.-Sales Mgr.; W. R. Foss, Ch. Engr.-Prod.; S. I. MacFarland, M. M.-Supt.	

XENIA, GREENE COUNTY, OHIO

	HOOVEN & ALLISON CO., THE. J. D. Steele, Pres.; J. F. Orr, Secy.; Geo. E. Hudson, Treas.; C. E. Haver, Ch. Engr.; A. L. Regan, Gen. Supt.; E. L. Clayton, Pur. Agt.	
A-B	KELLY, R. A. CO., THEW. Market St Geo. R. Kelly, Pres.; J. W. Santmyer, Secy.-Treas.	
H-X-DD	XENIA FDY. & MACH. CO., THE. Information withheld.	

Main Office and Showroom: 717 LAKESIDE AVE. N.W.

YOUNGSTOWN, MAHONING COUNTY, OHIO

Class	Firm and Personnel	Address
F	AMERICAN PATTERN MFG. CO., THE Wm. J. Hull, Pres.; F. E. Otterman, Sec.-Treas.	2200 Wilson Ave.
BB-CCC	AMERICAN SINTERING CO. F. W. Yost, Dist. Mgr.	Home Sav. & Loan Bldg.—(Br. Chicago, Ill.)
R	BANNER ELECT. WKS. OF GENERAL ELEC. CO. F. C. Kirchner, Mgr.; A. L. Thompson, M. M.	617 William St.—(See Cleveland, O.)
DD	BELMONT GEN MCH. CO. Pat Gorman, Prop.-Supt.; Geo. Morrison, Prop.	817 Marshall St.
G-JJ	BRIER HILL STEEL CO., THE Jas. H. Grose, Pres.; Chas. B. Cushwa, Gen. Mgr.; C. A. Ilgenfritz, P. A.	M. O. Stambaugh Bldg.—also Cleveland, O.
BB-QQ-K	BUILDERS STEEL PRODUCTS CO. R. N. Pretsch, Sales Mgr.	Park Theater Bldg.
G-JJ	CARNEGIE STEEL CO., THE I. L. Hughes, G. M.; F. E. Kling, Ch. Engr.; C. R. Miller, P. A. (Pittsburgh, Pa.)	912 Salt Spring St.—(Br. Pittsburgh, Pa.)
BB-I	COLONIAL SUPPLY CO. Wm. Harris, Dist. G. M.	507 Stambaugh Bldg. (M. O. Pittsburgh, Pa.)
D	COMM. SHEARING AND STAMPING CO., THE Robt. Carmick, Pres.; G. F. Danielson, Wks. Mgr.-P. A.; R. V. Proctor, M. M.-Wks. Engr.; G. C. Tinsley, V. P.-Gen. Sales Mgr.	Wks. 1775 Logan Ave.—M. O. 113 Oak Hill Ave.
D-QQ	DURKEE MFG. CO., THE George Durkee, Pres.-Treas.-G. M.; H. A. Walters, V. Pres. Sec.-Treas.-P. A.	17 Sycamore St.
G-JJ	ELECTRIC ALLOY STEEL CO. L. J. Campbell, Pres.; A. E. Adams, V. Pres.; W. D. Myers, Secy.-Treas.; G. W. Morrison, Fcty. Mgr.; G. W. Knight, Ch. Engr.-Master Mech.; L. H. Bittner, Pur. Agt.	
DD	ERB, C. F. CO. C. F. Erb, Prop.-G. M.-Supt.-P. A.	722 Madison Ave.
H-X	FALCON BRONZE CO. G. A. Doeright, Pres.-G. M.	220 S. Phelps St.
G-LL	FITZSIMMONS CO., THE T. G. Fitzsimmons, Sr.; Chas. Johnson, M. M.; J. F. Fitzsimmons, Treas.; Thos. G. Fitzsimmons, Jr., Supt.; R. E. Fitzsimmons, G. M.-P. A.	1631 Wilson Ave.
G-QQ	GEN. FIREPROOFING CO., THE W. H. Foster, Pres.; S. S. French, V. P.-G. M.; W. C. Coryell, Ch. Eng.; J. A. Hall, Supt.; C. Y. Farrell, P. A.	Erie Track & Elm. St.
ZZ	HOGAN STEEL CONST. CO., THE. Information withheld.	
E	INDEPENDENT MOTOR CORP. CO., THE A. W. Frantz, V. P.; Jno. Voorhis, Supt.	1636 Wilson Ave.
D	KAUFMAN WALTERS & CO. Information withheld.	
F	LIBERTY PATTERN WORKS. Information withheld.	
EE	LIBERTY WELDING & BRAZING CO. Information withheld.	
H-X-K	LUMEN BEARING CO., INC. W. H. Barr, Pres.-Treas.; C. H. Bierbaum, V. P.; N. K. B. Patch, Secty.; Kester Barr, Mgr.; W. E. Warner, Gen. Supt.; L. M. Nesselbush, P. A.	Poland & Powersdale Aves.
BB-PP	McARTNEY MCHY. CO., THE. E. E. McCartney, Pres.-G. M.	
DD-B	McKAY, GEO. G. Geo. G. McKay, Prop.-Supt.	546 W. Rayen Ave.
H-X	MAHONING FOUNDRY CO., THE. Information withheld.	
D-QQ	METAL PRODUCTS CO., THE. S. H. Weinreich, Pres.; A. M. Frankle, V. Pres.; F. S. Ullman, Secy.-Treas.-G. M.-P. A. J. H. Frankle, Fcty. Mgr.; E. Hughes, Gen. Supt.	
G-JJ	NEWTON STEEL CO., THE Information withheld.	Also Newton Falls, O.
B-DD	PERRY, F. W. MACHINE CO., THE F. W. Perry, Pres.-G. M.; I. Sussman, Secty.; Eugene Crow, Treas.	240 Belmont Ave.

SAVE THRU' EMPIRE MACHINERY SERVICE

THE EMPIRE MACHINERY EXCHANGE CO.

517-519 Newman-Stern Bldg., CLEVELAND, O.

YOUNGSTOWN, MAHONING COUNTY, OHIO

Class	Firm and Personnel	Address
C	POLLOCK, WM. B. CO. Wm. G. Wilson, Pres.-Treas.; Jno. H. Warne, V. P.-G. M.; Jno. Kirby, V. P.-Gen. Supt.; E. J. Reilly, Sales Dir.; Jas. T. Gilboy, P. A.; A. N. Smith, Eng.; J. B. Morgan, M. M.	E. Federal St.
G-QQ	RAYMOND CONCRETE PILE CO. Thos. L. Hughes, Supt.	Box 304 Andrews Ave.—(M. O. N. Y. City.)
	RELIANCE WHEEL CO., THE. Information withheld.	
G-JJ	REPUBLIC IRON & STEEL CO., THE. J. W. Deetrick, 2nd V. P.; Ralph Prall, Gen. Mgr.; S. H. McKee, Ch. Eng.; Peter Gordon, Supt.; F. H. Hedges, P. A.	335 Market St.
YY	REPUBLIC RUBBER CORP. THE. J. Kent, V. P.-Wks. Mgr.; C. F. Garrison, Gen. Mgr.; C. H. Zieme, Tech. Supt.; L. A. Watts, P. A.	Albert St.
DD-II	RICHARDS, JOHN. John Richards, Prop.	
U	SAFETY BOLT CO., THE. Information withheld.	
GG	SHARON STEEL HOOP CO. D. R. Fithian, Wks. Mgr.; A. D. Troth, P. A.	Wilson Ave.—(M. O. Sharon, Pa.)
BB-G-JJ	SHEET METAL MFG. CO., THE. Thos. E. Farrell, Pres.-G. M.-P. A.; C. D. Watson, V. P.; J. J. Farrell, Sec.-Treas.	City Limits—(Wks. Canton, O.)
DD	SMITH, F. B. CO. F. B. Smith, Pres.-G. M.; Fred A. Simmons, Supt.	46 Pyatt St.
BB-I	STANDARD SUPP. & EQUIP. CO. Frank, J. Bowers, Dist. Mgr.	2nd Floor Park Theater Bldg. (M. O. & Warehouse, Pittsburgh, Pa.)
	STANDARD TEXTILE PROD. CO., THE. D. O. Allen, G. M.; Jno. Heinl, Supt.; C. D. Woodruff, M. M.-Engr.; Henry Pope, P. A.	Box 507—(M. O. New York City)
V	STANDARD TRACTOR CONTROL CO., THE. W. H. Kilcawley, Pres.; M. L. Cline, V. Pres.; W. E. Bliss, Secy.-Treas.; H. R. Hooper, Sales Mgr.; R. D. Cline, Pur. Agt.	
EE-DD	STEEL CITY WELDING & GEN. REPAIR. Jos. Sampsel, Prop.	507 Market St.
	STEELDUCT CO., THE. Information withheld.	
F	STEEL VALLEY PATTERN WKS. Information withheld.	
H-X-GGG	TRUMAN, A. L. & SON. Information withheld.	
G-QQ	TRUSCON STEEL CO., THE. Julius Kahn, Pres.-Gen. Mgr.; T. H. Kane, V. Pres.-Fcty. Mgr.; W. F. Guthrie, V. Pres.; Gustave Kahn, V. Pres.; W. J. T. Davis, Comptroller; O. W. Chaffee, Asst. Treas.; H. E. White, Ch. Engr.-M. M.; F. H. Smith, Pur. Agt.; C. E. Bagnall, Asst. Pur. Agt.	
B-H-X-DD	UNITED ENG. & FDY. CO. G. W. Knotts, G. M.; S. J. Riley, Supt.; G. W. Sanborn, P. A. (Pittsburgh, Pa.)	261 S. Phelps St.—(M. O. Pittsburgh, Pa.)
B	WAGENHORST, J. H. & CO. E. G. Perkins, Secty.-G. M.	512 Andrews St.
R-DD	WILKERSON ELECTRIC & MACHINE CO., THE. Information withheld.	
BB-JJ	WILKOFF CO., THE. I. Wilkoff, G. M.; A. B. Cooper, Asst. Sales Mgr.; P. P. Brown, Sales Mgr.	1609 Wilson Ave.
B	WIZARD MFG. CO., THE. Information withheld.	
DD	Y. M. C. A. TRADE SCHOOL. L. R. Hendricks, Asst. Supt. (Auto Rep.) G. E. Frease, Supt. Mch.; J. H. Service, Dean-P. A.	26 E. Rayen Ave.
C-ZZ	YOUNGSTOWN BOILER & TANK CO., THE. Jas. P. Keen, Pres.; R. I. Ingalls, V. P.; C. R. Vogel, Sec.-Treas.	Office 1054 Mahoning Avenue.
M-DD	YOUNGSTOWN CITY FORGE CO. Information withheld.	

OHIO
SALES
OFFICE



MORSE DRIVES



ENGINEERS
BUILDING
CLEVELAND

YOUNGSTOWN, MAHONING COUNTY, OHIO

Class	Firm and Personnel	Address
B-H-X-DD	YOUNGSTOWN FDY. & MCH. CO., THE W. J. Wallis, Pres.; H. Rein, Ch. Engr.; J. McLain, Supt.; B. G. Parker, G. M.-P. A.	941 W. Federal Street
	YOUNGSTOWN FURNACE CO., THE. Information withheld.	
R	YOUNGSTOWN MAZDA LAMP WKS. OF GEN. ELEC. CO. F. C. Kirchner, G. M.-Supt.; A. L. Thompson; G. C. Murberger, P. A.	617 William St.—(Br. Schenectady, N. Y.)
F	YOUNGSTOWN PATTERN CO., THE. Information withheld.	
G-JJ-LL	YOUNGSTOWN SHEET & TUBE CO., THE J. A. Campbell, Pres.; C. S. Robinson, V. P.-G. M.; W. C. Reiley, Gen. Supt.; A. J. Boehme, Ch. Engr.; G. E. Mirfield, Eff. Engr.; E. G. Murray, P. A.; W. H. Steel, Asst. P. A.	Stambaugh Blvd.
B	YOUNGSTOWN SHRINKING MACHINE CO., THE. Information withheld.	
ZZ	YOUNGSTOWN STRUCTURAL STEEL CO., THE. Information withheld.	
N-QQ	YOUNGSTOWN WIRE AND IRON CO., THE J. M. Moderata, Pres.; G. C. Chirichigno, G. M.-P. A.; Frank J. Bowers, Dir. of Sales; M. C. Giorgio, Supt.	Sycamore & Andrews Aves.
EE	YOUNGSTOWN WELDING CO., THE W. D. McKay, Pres.-G. M.-Supt.	536 W. Rayen Ave.

ZANESVILLE, MUSKINGUM COUNTY, OHIO

XX	AMERICAN ENCAUSTIC ENTILING CO. W. McCoy, Ch. Engr.; H. D. Lillibridge, Supt.	
G-JJ	AMERICAN ROLLING MILL CO., THE. A. F. Murphy, Gen. Supt.	
RR	BROWN MFG. CO., THE. D. W. Dawning, Gen. Supt.	
DD-C	COLUMBIA MACHINE CO., THE W. D. Haehnlen, Pres.-G. M.-Fcty. Mgr.-P. A.; W. H. Haehnlen, Secy.-Treas.	24 Eighth
H-X	DOCKRAY, H. V. BRASS & IRON CO. Louis H. Wise, Pres.-Treas.-G. M.-P. A.; E. F. O'Neal, V. Pres.; R. A. Wise, Secy.; A. A. Wise, Fcty. Mgr.; C. W. Albertson, Ch. Engr.; Karl Hiebel, Master Mech.	363 N. 6th St.
H-X-C	FEDERAL RADIATOR CO., THE. A. T. Baker, Pres.; G. C. Blackmore, V. Pres.; A. L. Rea, Secy.-Sales Mgr.-P. A.; H. J. Kuerdler, Treas.; Edw. Davis, Master-Mech.	
XX	KEARNS-GORSUCH BOTTLE CO., THE Ralph Gorsuch, Pres. Treas.; A. F. Brady, V. P.; C. O. Stewart, Secy. G. M. P. A.; E. J. Gorsuch, Fcty. Mgr.	Also Barnesville, Ohio
E	KIMBLE, K. A. COMPANY K. A. Kimble, Prop.	321 Market St.
LL	MARK MFG. CO., THE. P. C. Mark, G. M.-Ch. Engr.-P. A.; F. T. Ellis, Wks. Mgr.; J. E. Cunningham, Supt.	
XX	OHIO POTTERY CO., THE. C. D. Fraunfelter, Pres. G. M.; H. A. Ernst, V. Pres.; G. E. Fraunfelter, Secy.; H. R. Geyer, Treas.	
BB-I	ROCKEL CO., THE. Henry Rockel, Pres. G. M.; Julia Clarke, V. P.; C. I. Schooley, S. T.; Alfred Miedel, P. A.; Homer J. Dickson, Asst. P. A.	
H-X-GGG	STANDARD MALLEABLE CO., THE Eli A. Palmer, Pres.; J. P. Sherer, V. P.; A. L. Rea, Secty.; Wm. Haehnlen, Treas.-G. M.-P. A.-Sales; Louis T. Weidig, Fcty. Mgr.-Supt.	Licking View
F-C-B-DD-II	TRI-STATE ENGINEERING CO. Anson Mark, Pres.; Perry C. Mark, V. Pres.; F. F. Frazier, Secy.; Helina, C. Abel, Treas.; Edd M. Love, Gen. Mgr.; James L. Mayer, Ch. Engr.; G. Jacob, Master Mech.	130 South 5th St.
XX	ZANE POTTERY CO., THE Adam Reed, Pres.; R. A. Trenner, V. P.; H. S. McClelland, Sec.-Treas.-Gen. Supt.-P. A.; E. L. Stephens, Prod. Mgr.	South Zanesville
H-X	ZANESVILLE MALLEABLE CO., THE Frank Moore, Pres.; J. B. Coates, V. Pres.; P. A. Kern, Secy.-Treas.; W. F. Fuchs, Gen. Supt.	South End Moxahala Ave.
B-L-DD	ZANESVILLE ENGR. & REFRIG. CO. Jno. F. Brown, Pres.-Treas.-Gen. Supt.; Louis H. Wise, V. P.-P. A.; C. W. Albertson, Sec.-G. M.-Fcty.; A. A. Dockray, Prod. Mgr.-M M.	

Limitations of space, as well as our intimate responsibility to our patrons, has enforced on us the adoption of a highly selective policy governing admission to our advertising columns. We are in a position, therefore to recommend our advertisers, listed here, as entirely worthy of your confidence and consideration.

ADVERTISERS INDEX

	Page		Page
Active Machine & Tool Co., The.....	48	Kath & Baughman.....	22
Alliance (Ohio) Chamber of Commerce.....	36	Kenton (Ohio) Chamber of Commerce.....	64
Aluminum Fix Co., The.....	6	King Tool Grinding Company.....	70
American Speed-O-Feeder Co., The.....	38		
American Ribbon & Carbon Co.....	36	Leers, G. W.....	82
American Tube & Pipe Bending Co., The.....	36	Letter Specialty Co., The.....	84
Atlas Bolt & Screw Co., The.....	16	Lyons Machine Company.....	56
Barth Stamping & Machine Works.....	48	Madison Pattern & Flask Works.....	4
Bauschke, C. C. Machinery Co.....	50	Marietta (Ohio) Chamber of Commerce.....	70
Biggs-Watterson Co., The.....	46	Maxwell, C. W.....	36
Bodine Machine Company.....	48	Mo-Grite Oil Company.....	86
Boston Gear Works.....	46	Morse Chain Company.....	Margins
Boyd, Chas. A.....	44	Motch & Merryweather Machinery Co., The.....	Margins
Boyd, H. & Company.....	36	Murley Tool & Supply Co., The.....	2
Brass & Aluminum Products Co., The.....	50		
Buckeye Welding & Supply Co., The.....	38	National Welding Company.....	50
Buehler Printcraft Company, The.....	Front Cover (Inside)		
		Pfahl Machine & Tool Company.....	48
Central Casualty Company.....	(Back Cover (Inside))	Pichler, John Company.....	48
Charlotte Leather Belting Company.....	46	Pifer Electric Repair & Mfg. Co., The.....	54
Cleveland Drop Forge Co., The.....	50	Porter, Geo. H. Steel & Treating Company.....	56
Cleveland Flux Co., The.....	52		
Cleveland Instrument Co., The.....	52	Rose Machine & Spring Company.....	Margins
Cleveland Twist Drill Co., The.....	Margins	Rusticide Company, The.....	16
Climax Motor Devices Co., The.....	68		
		Safe-Guard Check Writer Co., Inc.....	6
Delta Machine & Tool Co., The.....	68	Sague, J. C.....	64
		Sandusky (Ohio) Chamber of Commerce.....	40
Eagle Bolt & Forging Co., The.....	46	Saw & Knife Specialty Co., The.....	42
Elliott Co., The.....	52	Sero Specialty Company.....	52
Empire Machinery Exchange Co., The.....	Margins	Sheet Metal Machinery Company.....	6
Euclid Machine & Engineering Company.....	48	Superior Die Casting Company.....	82
		Superior Steel Stamp Company.....	40
Freyman Tool Company.....	6		
		Union Trust Company.....	Back Cover (Outside)
Guarantee Welding Co., The.....	64	United States Electric Tool Co., The.....	40
H. & K. Tool Co., The.....	48	Valley Contracting Co., The.....	64
Hess-Schenck Co., The.....	42	Variety Machine & Stamping Co.....	70
Hines Pattern & Mfg. Co., The.....	4		
Hughes-Limbach Co., The.....	40	Weber, John.....	48
		Weldon Tool Company.....	66
Industrial Machine Co., The.....	68	Weldwork Machine Co., The.....	48
Interstate Business Exchange.....	Margins		

Industrial Service Bulletins are prepared by this company to help you keep abreast of the activities in this field.

May we explain this valuable asset?

BUCKEYE LISTING COMPANY

Central Casualty ^{BUY}_{IN} ^{OHIO} Company

REASONS

1. An Ohio Company for Ohio People.
2. The Central pays for the first day's illness without extra charge.
3. Claims paid promptly without red tape.
4. Cost according to hazard of occupation.
5. No medical examination.
6. No policy fee.
7. Every illness covered except insanity and venereal in full to the amount named in the policy.
8. Covers disability resulting from external boils, felons or abscesses regardless of confinement.
9. A promissory note endorsed with standard provisions.
10. The Central is Ohio's largest Health and Accident Company.
11. The cost is small---the protection absolute---dependable---desired by anyone whose time has a money value.

Policies issued on the monthly and commercial plans either individual or group.

Factory Superintendents, Foremen and Employment Managers can increase their income by making an Agency connection with us.

For further particulars address Central Casualty Co., Home Office, 1006 Hartman Bldg., Columbus, Ohio, Branch Office, 501 Erie Bldg., Cleveland, Ohio.

BUY

IN

OHIO

LIBRARY OF CONGRESS
0 030 000 545 7

The
**UNION TRUST
COMPANY**
Cleveland



ONE of the country's
mightiest banking insti-
tutions and the center
of commercial banking
activity in the great,
wealthy industrial sec-
tion midway between
Chicago and New York

Capital and Surplus
\$33,375,000

